

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
December
2009

Edmund G. Brown Jr.
Governor
State of California

John Laird
Secretary for Resources
The Resources Agency

Mark Cowin
Director
Department of Water Resources

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

Printed copies of these reports may be available for a fee.
For details, please contact

State of California
Department of Water Resources
P.O. Box 942836
Sacramento, CA 94236-0001

Or call the DWR Publications Desk at (916) 653-1097

Please direct questions and comments regarding the contents of this report to the Operations Records and Reports Section at (916) 574-2672. Additions or deletions to the current mailing list can be made by calling the Mailing List Coordinator at (916) 653-0995.

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA



For the month of:
December
2009

Edmund G. Brown Jr.
Governor
State of California

John Laird
Secretary for Resources
The Resources Agency

Mark Cowin
Director
Department of Water Resources

State of California
EDMUND G. BROWN JR., Governor

The Resources Agency
JOHN LAIRD, Secretary for Resources

Department of Water Resources
MARK COWIN, Director

Department of Water Resources
SUSAN SIMS, Chief Deputy Director

DALE HOFFMAN-	CARL	GARY	KATHIE	VACANT
FLOERKE	TORGERSSEN	BARDINI	KISHABA	Deputy Director
Deputy Director	Deputy Director	Deputy Director	Deputy Director	

DIVISION OF OPERATIONS AND MAINTENANCE

David Starks..... Chief, Division of Operations and Maintenance

This report was prepared under the direction of

David Roose..... Office Chief, Operations Control Office

John Leahigh..... Principal Engineer, Water Operations office

Tracy Hinojosa Branch Chief, Regulatory Compliance and Reporting Branch

By the Reporting Section

Guy Masier..... Section Chief, Reporting Section

Michael Nolasco..... Water Resources Engineering Associate (Specialist)

Mary Valdez Water Resources Engineering Associate (Specialist)

The organization shown above represents staff and positions relevant to this report as of publication date on May 2012. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

Table of Contents

	Page
Organization Page.....	ii
Table of Contents	iii
Monthly Highlights	1
 Oroville Field Division Water Operations	
Table	Page
1 Antelope Lake, Daily Operation.....	2
2 Frenchman Lake, Daily Operation.....	3
3 Lake Davis, Daily Operation.....	4
4 Lake Oroville, Daily Operation.....	5
5 Thermalito Forebay, Including Diversion Pool and Power Canal, Daily Operation.....	6
6 Thermalito Afterbay, Daily Operation	7
7 Oroville-Thermalito Complex, Water Temperature Data	8
 Delta Field Division Water Operations	
8 North Bay Aqueduct, Delta Field Division	9
9 Delta Field Division Plant Data.....	10
10 Clifton Court Forebay, Daily Operation of Gates.....	11
11 Governor Edmund G. Brown California Aqueduct, Delta Field Division, Monthly Deliveries	12
12 South Bay Aqueduct, Delta Field Division, Monthly Deliveries	13
13 Lake Del Valle, Daily Operation	14
 San Luis Field Division Water Operations	
14 Consolidated State-Federal O'Neill Forebay, Daily Operations	15
15 Consolidated State-Federal San Luis Reservoir, Daily Operations	16
16 San Luis Field Division Plant Data	17
17 Consolidated State-Federal Los Banos Reservoir, Daily Operations	18
18 Consolidated State-Federal Little Panoche Reservoir, Daily Operations	19
19 Governor Edmund G. Brown California Aqueduct, San Luis Field Division, Monthly Deliveries.....	20
20 Consolidated State-Federal San Luis Canal, Daily Operations	22
 San Joaquin Field Division Water Operations	
21 San Joaquin Field Division Plant Data	23
22 Governor Edmund G. Brown California Aqueduct, San Joaquin Field Division, Monthly Deliveries.....	24
23 Governor Edmund G. Brown California Aqueduct, San Joaquin Field Division, Monthly Deliveries (Coastal Branch).....	27

Southern Field Division Water Operations

24	Southern Field Division Plant Data.....	28
25	Pyramid Lake, Daily Operation.....	29
26	Elderberry Forebay, Daily Operation.....	30
27	Castaic Lake, Daily Operation.....	31
28	Governor Edmund G. Brown California Aqueduct, Southern Field Division, Monthly Deliveries (West Branch).....	32
29	Silverwood Lake, Daily Operation	33
30	Lake Perris, Daily Operation	34
31	Governor Edmund G. Brown California Aqueduct, Southern Field Division, Monthly Deliveries (East Branch).....	35

Water Quality Operations

32	Water Quality at Selected SWP Locations	37
33	Water Quality at Selected Delta Stations	38
34	Pesticides, Herbicides, and Other Organic Substances Detected in the SWP.....	39

Energy Operations

35	Oroville and Delta Field Divisions Energy Data	40
36	San Luis Field Division Energy Data	41
37	San Joaquin Field Division Pumping Plant Energy Load Data	42
38	Southern Field Division Energy Data	43

MONTHLY HIGHLIGHTS

The following activities highlight actions that affected State Water Project operations during December 2009.

Statewide precipitation was about 85 percent of average for the water-year through December 31.

Precipitation percentages are used in this report to express historical and regional comparisons.

Additional and more specific information is available on the internet at

http://cdec.water.ca.gov/snow_rain.html

Snowpack and Statewide Runoff data is compiled four times annually, for the months of January, February, March, and April by the California Department of Water Resources in Bulletin 120. No Snowpack or Statewide Runoff data is available in December. Cumulative Unimpaired runoff for the 2009-10 water year for the Sacramento River Region was 1.5 maf, 47 percent of average, compared to 1.4 maf at this time in 2008.

Statewide reservoir storage was 75 percent of average to date. Total storage in major SWP reservoirs at the end of December 2009 was about 2.34 maf compared to 1.79 maf at this time in 2008. On December 31, 2009, end-of-month storage at Lake Oroville was about 1.03 maf, as compared to .981 maf at this time in 2008. The State share of San Luis Reservoir's end-of-month storage was about 343 taf, as compared with 258 taf at this time in 2008. The combined storage in SWP's southern reservoirs was about 556 taf, compared with about 552 taf at this time in 2008.

SWP water deliveries to date through December 2009 were about 2.45 maf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2008 were 2.82 maf.

On May 31, by mutual agreement between the United States Bureau of Reclamation and the California Department of Water Resources in accordance with Article 6(h) of the COA, "Balanced" conditions were declared in the Delta and remained "Balanced" throughout the end of calendar year 2009. "Balanced" conditions exist when the DWR and the USBR agree that releases from upstream reservoirs plus unregulated flow approximately equal the water supply needed to meet Sacramento Valley in-basin uses, plus exports.

Banks Plant pumping was curtailed between December 3 and 12 due to the loss of the Skinner Fish Facility new building crane hoist. Maintenance personnel were called out to assess repairs. Banks schedule was changed due to the loss of this equipment. Normal operations resumed on December 13. On December 22, the Delta Field Division reported a leak in the South Bay Aqueduct system 60" pipe between Del Valle plant and the Aqueduct. At 1615 hours Del Valle units 1 thru 4 were forced out of service and the Del Valle release was secured.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

December 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Nov 30	4993.75	15,630									
1	4993.71	15,670	40	20	0	0	0	1	21	41	
2	4993.67	15,570	-100	20	0	0	0	1	21	-29	
3	4993.63	15,540	-30	20	0	0	0	1	21	6	
4	4993.57	15,495	-45	20	0	0	0	1	21	-2	
5	4993.48	15,428	-67	20	0	0	0	1	21	-13	
6	4993.44	15,398	-30	20	0	0	0	1	21	6	
7	4993.41	15,376	-22	20	0	0	0	1	21	10	
8	4993.36	15,339	-37	20	0	0	0	1	21	2	
9	4993.31	15,302	-37	20	0	0	0	1	21	2	
10	4993.27	15,273	-29	20	0	0	0	1	21	6	
11	4993.25	15,258	-15	20	0	0	0	1	21	13	
12	4993.25	15,258	0	20	0	0	0	1	21	21	
13	4993.23	15,243	-15	20	0	0	0	1	21	13	
14	4993.19	15,213	-30	20	0	0	0	1	21	6	
15	4993.17	15,199	-14	20	0	0	0	1	21	14	
16	4993.15	15,184	-15	20	0	0	0	1	21	13	
17	4993.11	15,155	-29	20	0	0	0	1	21	6	
18	4993.05	15,110	-45	20	0	0	0	1	21	-2	
19	4993.02	15,088	-22	20	0	0	0	1	21	10	
20	4992.99	15,066	-22	20	0	0	0	1	21	10	
21	4992.97	15,052	-14	20	0	0	0	1	21	14	
22	4992.97	15,052	0	20	0	0	0	2	22	22	
23	4992.92	15,015	-37	20	0	0	0	2	22	3	
24	4992.89	14,993	-22	20	0	0	0	2	22	11	
25	4992.85	14,964	-29	20	0	0	0	2	22	7	
26	4992.82	14,942	-22	20	0	0	0	2	22	11	
27	4992.78	14,913	-29	20	0	0	0	2	22	7	
28	4992.76	14,898	-15	20	0	0	0	2	22	14	
29	4992.73	14,877	-21	20	0	0	0	2	22	11	
30	4992.68	14,840	-37	20	0	0	0	2	22	3	
31	4992.65	14,818	-22	20	0	0	0	2	22	11	
Total cfs-days				---	620	0	0	0	41	661	
Total ac-ft				-812	1,230	0	0	0	82	1,312	
										500	

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

December 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Supply Contract	Water Right					
Nov 30	5558.61	20,268									
1	5558.62	20,277	9	2	1	0	0	2	5	10	
2	5558.61	20,268	-9	3	0	0	0	2	5	0	
3	5558.62	20,277	9	3	0	0	0	2	5	10	
4	5558.61	20,268	-9	3	0	0	0	2	5	0	
5	5558.60	20,259	-9	3	0	0	0	2	5	0	
6	5558.65	20,302	43	3	0	0	0	2	5	27	
7	5558.68	20,328	26	3	0	0	0	2	5	18	
8	5558.67	20,319	-9	3	0	0	0	2	5	0	
9	5558.63	20,285	-34	3	0	0	0	2	5	-12	
10	5558.62	20,277	-8	3	0	0	0	2	5	1	
11	5558.65	20,302	25	3	0	0	0	2	5	18	
12	5558.72	20,362	60	3	0	0	0	2	5	35	
13	5558.70	20,345	-17	3	0	0	0	2	5	-4	
14	5558.70	20,345	0	3	0	0	0	2	5	5	
15	5558.69	20,336	-9	3	0	0	0	2	5	0	
16	5558.71	20,353	17	3	0	0	0	2	5	14	
17	5558.68	20,328	-25	3	0	0	0	1	4	-9	
18	5558.66	20,311	-17	3	0	0	0	1	4	-5	
19	5558.65	20,302	-9	3	0	0	0	1	4	-1	
20	5558.70	20,345	43	3	0	0	0	1	4	26	
21	5558.72	20,362	17	3	0	0	0	1	4	13	
22	5558.67	20,319	-43	3	0	0	0	1	4	-18	
23	5558.69	20,336	17	3	0	0	0	1	4	13	
24	5558.67	20,319	-17	3	0	0	0	1	4	-5	
25	5558.71	20,353	34	3	0	0	0	1	4	21	
26	5558.68	20,328	-25	3	0	0	0	1	4	-9	
27	5558.69	20,336	8	3	0	0	0	1	4	8	
28	5558.72	20,362	26	3	0	0	0	1	4	17	
29	5558.73	20,370	8	3	0	0	0	1	4	8	
30	5558.70	20,345	-25	3	0	0	0	1	4	-9	
31	5558.73	20,370	25	3	0	0	0	1	4	17	
Total cfs-days				---	92	1	0	0	47	140	192
Total ac-ft				102	182	2	0	0	94	278	380

1/ Last Chance Creek Water District.

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

December 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract				
Nov 30	5762.07	40,991								
1	5761.96	40,698	-293	10	0.2	0	0	5	15	
2	5761.96	40,698	0	10	0.2	0	0	5	15	
3	5761.96	40,698	0	10	0.2	0	0	5	15	
4	5761.94	40,644	-54	10	0.2	0	0	5	15	
5	5761.94	40,644	0	10	0.2	0	0	5	15	
6	5761.95	40,671	27	10	0.2	0	0	5	15	
7	5762.01	40,831	160	10	0.2	0	0	5	15	
8	5761.94	40,644	-187	10	0.2	0	0	5	15	
9	5761.88	40,485	-159	10	0.2	0	0	5	15	
10	5761.85	40,405	-80	10	0.2	0	0	5	15	
11	5761.99	40,778	373	10	0.2	0	0	5	15	
12	5762.04	40,911	133	10	0.2	0	0	5	15	
13	5761.98	40,751	-160	10	0.2	0	0	5	15	
* 14	5762.04	40,911	160	10	0.2	0	0	5	15	
* 15	5762.04	40,911	0	10	0.2	0	0	5	15	
* 16	5762.04	40,911	0	10	0.2	0	0	5	15	
* 17	5762.04	40,911	0	10	0.2	0	0	5	15	
* 18	5762.04	40,911	0	10	0.2	0	0	5	15	
* 19	5762.04	40,911	0	10	0.2	0	0	5	15	
* 20	5762.04	40,911	0	10	0.2	0	0	5	15	
* 21	5762.04	40,911	0	10	0.2	0	0	5	15	
* 22	5762.04	40,911	0	10	0.2	0	0	5	15	
* 23	5762.04	40,911	0	10	0.2	0	0	5	15	
* 24	5762.04	40,911	0	10	0.2	0	0	5	15	
25	5762.04	40,911	0	10	0.2	0	0	5	15	
26	5762.04	40,911	0	10	0.2	0	0	4	14	
27	5761.90	40,538	-373	10	0.2	0	0	4	14	
28	5762.20	41,340	802	10	0.2	0	0	4	14	
29	5762.20	41,340	0	10	0.2	0	0	4	14	
30	5762.18	41,287	-53	10	0.2	0	0	4	14	
31	5762.17	41,260	-27	10	0.2	0	0	4	14	
Total cfs-days				---	304	6	0	149	459	
Total ac-ft				269	603	12	0	295	910	
									1,179	

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

* Estimated daily values.

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

December 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
Nov 30	684.12	1,137,487										
	1	682.85	1,128,467	-9,020	10,488	4	0	0	11	0	10,503	0
	2	681.57	1,119,427	-9,040	11,027	4	0	0	29	0	11,060	0
	3	680.26	1,110,228	-9,199	11,067	4	0	0	34	0	11,105	0
	4	679.06	1,101,849	-8,379	11,085	4	0	0	14	0	11,103	0
	5	679.09	1,102,058	209	2,820	4	0	0	24	0	2,848	0
	6	679.02	1,101,570	-488	2,687	4	0	0	58	0	2,749	0
	7	677.71	1,092,475	-9,095	10,001	4	0	0	19	0	10,024	0
	8	676.82	1,086,326	-6,149	10,226	4	0	0	29	0	10,259	0
	9	676.07	1,081,163	-5,163	6,569	4	0	0	29	0	6,602	0
	10	674.92	1,073,280	-7,883	9,873	4	0	0	9	0	9,886	0
	11	673.61	1,064,349	-8,931	11,964	4	0	0	0	0	11,968	0
	12	674.23	1,068,569	4,220	2,108	4	0	0	5	0	2,117	0
	13	674.55	1,070,752	2,183	4,228	4	0	0	0	0	4,232	0
	14	673.72	1,065,097	-5,655	8,280	4	0	0	0	0	8,284	0
	15	673.07	1,060,683	-4,414	8,060	4	0	0	0	0	8,064	0
	16	672.88	1,059,395	-1,288	5,064	4	0	0	14	0	5,082	0
	17	672.85	1,059,191	-204	3,528	4	0	0	5	0	3,537	0
	18	672.61	1,057,566	-1,625	3,352	4	0	0	9	0	3,365	0
	19	672.54	1,057,093	-473	3,596	4	0	0	5	0	3,605	0
	20	672.58	1,057,363	270	2,944	4	0	0	28	0	2,976	0
	21	672.13	1,054,321	-3,042	5,580	4	0	0	9	0	5,593	0
	22	671.94	1,053,039	-1,282	5,219	4	0	0	0	0	5,223	0
	23	671.59	1,050,679	-2,360	5,805	4	0	0	37	0	5,846	0
	24	670.60	1,044,024	-6,655	9,331	4	0	0	28	0	9,363	0
	25	670.36	1,042,415	-1,609	4,341	4	0	0	14	0	4,359	0
	26	670.06	1,040,406	-2,009	4,333	4	0	0	0	0	4,337	0
	27	669.86	1,039,069	-1,337	5,171	4	0	0	23	0	5,198	0
	28	668.49	1,029,932	-9,137	10,180	4	0	0	5	0	10,189	0
	29	668.34	1,028,936	-996	4,812	4	0	0	0	0	4,816	0
	30	668.35	1,029,002	66	3,315	4	0	0	5	0	3,324	0
	31	668.43	1,029,534	532	2,617	4	0	0	5	0	2,626	0
Total				-107,953	199,671	124	0	0	448	0	200,243	0
92,290												

1/ Includes bypass flows

2/ South Feather Water and Power Agency

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

December 2009

Capacity: 25,120 ac-ft

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Nov 30	24,162										
1	24,391	229	10,488	287	0	9,494	3	3	1,307	0	261
2	24,409	18	11,027	496	0	10,475	3	3	1,317	0	293
3	24,587	178	11,067	494	0	10,273	3	3	1,313	0	209
4	24,620	33	11,085	494	0	10,415	3	3	1,325	0	200
5	24,321	-299	2,820	489	0	2,658	3	3	1,329	0	385
6	23,889	-432	2,687	489	0	2,676	3	3	1,327	0	401
7	24,013	124	10,001	489	0	9,212	3	3	1,325	0	177
8	24,203	190	10,226	488	0	9,408	3	3	1,325	0	215
9	24,116	-87	6,569	488	0	6,092	3	3	1,327	0	281
10	24,231	115	9,873	488	0	9,166	3	3	1,325	0	251
11	24,347	116	11,964	488	0	11,238	3	3	1,325	0	233
12	23,116	-1,231	2,108	489	0	2,968	3	3	1,333	0	479
13	23,813	697	4,228	490	0	3,236	3	3	1,319	0	540
14	23,765	-48	8,280	489	0	7,807	3	3	1,309	0	305
15	23,910	145	8,060	405	0	7,345	3	3	1,311	0	342
16	24,380	470	5,064	303	0	3,229	3	3	1,333	0	-329
17	23,975	-405	3,528	364	0	2,718	3	3	1,325	0	-248
18	24,062	87	3,352	476	0	1,980	3	3	1,333	0	-422
19	24,269	207	3,596	253	0	2,287	3	3	1,325	0	-24
20	23,956	-313	2,944	292	0	2,063	3	3	1,327	0	-153
21	24,291	335	5,580	333	0	3,591	4	3	1,323	0	-657
22	24,294	3	5,219	331	0	4,740	4	3	1,323	0	523
23	24,129	-165	5,805	327	0	5,590	4	4	1,323	0	624
24	24,196	67	9,331	207	0	8,700	4	4	1,321	0	558
25	24,096	-100	4,341	227	0	3,390	4	4	1,323	0	53
26	24,168	72	4,333	273	0	4,124	4	4	1,323	0	921
27	24,345	177	5,171	328	0	4,147	4	4	1,323	0	156
28	24,412	67	10,180	327	0	9,538	4	4	1,323	0	429
29	24,056	-356	4,812	360	0	4,174	4	4	1,353	0	7
30	24,029	-27	3,315	288	0	2,412	4	4	1,315	0	105
31	24,074	45	2,617	329	0	2,229	4	4	1,323	0	659
Total		-88	199,671	12,081	0	177,375	104	102	41,033	0	6,774

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

December 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Nov 30	129.82	31,556											
	1 130.67	34,414	2,858	9,494	2,083	10	534	728	2,777	0	-504	4,084	
	2 131.82	38,466	4,052	10,475	2,063	10	534	829	2,777	0	-210	4,094	
	3 132.82	42,160	3,694	10,273	2,023	10	534	889	2,757	0	-366	4,070	
	4 133.77	45,815	3,655	10,415	1,980	11	534	906	2,777	0	-552	4,102	
	5 132.55	41,148	-4,667	2,658	1,974	11	532	889	2,777	0	-1,142	4,106	
	6 131.46	37,175	-3,973	2,676	1,976	10	532	887	2,777	0	-467	4,104	
	7 132.18	39,778	2,603	9,212	1,932	6	536	831	2,777	0	-527	4,102	
	8 132.97	42,728	2,950	9,408	1,892	5	534	781	2,777	0	-469	4,102	
	9 132.79	42,047	-681	6,092	1,892	7	534	748	2,777	0	-815	4,104	
	10 133.60	45,151	3,104	9,166	1,908	7	528	698	2,777	0	-144	4,102	
	11 134.93	50,453	5,302	11,238	1,855	6	524	653	2,777	0	-121	4,102	
	12 134.22	47,592	-2,861	2,968	1,819	6	522	599	2,559	0	-324	3,892	
	13 133.59	45,112	-2,480	3,236	1,821	6	522	601	2,142	0	-624	3,461	
	14 134.27	47,791	2,679	7,807	1,821	6	524	502	1,759	0	-516	3,068	
	15 134.93	50,453	2,662	7,345	1,807	6	516	403	1,505	0	-446	2,816	
	16 134.76	49,761	-692	3,229	1,787	6	498	387	1,452	0	209	2,785	
	17 134.40	48,310	-1,451	2,718	1,781	6	492	361	1,450	0	-79	2,775	
	18 133.92	46,405	-1,905	1,980	1,781	6	492	363	1,454	0	211	2,787	
	19 133.37	44,259	-2,146	2,287	1,781	5	492	361	1,448	0	-346	2,773	
	20 132.89	42,425	-1,834	2,063	1,783	5	492	363	1,456	0	202	2,783	
	21 132.86	42,311	-114	3,591	1,787	5	494	377	1,454	0	412	2,777	
	22 132.87	42,349	38	4,740	1,763	5	478	391	1,448	0	-617	2,771	
	23 133.11	43,261	912	5,590	1,720	5	472	375	1,454	0	-652	2,777	
	24 134.10	47,116	3,855	8,700	1,692	5	474	355	1,458	0	-861	2,779	
	25 133.89	46,286	-830	3,390	1,688	6	472	353	1,450	0	-251	2,773	
	26 133.64	45,306	-980	4,124	1,694	6	472	355	1,450	0	-1,127	2,773	
	27 133.65	45,345	39	4,147	1,688	6	472	353	1,450	0	-139	2,773	
	28 134.87	50,208	4,863	9,538	1,694	6	468	399	1,454	0	-654	2,777	
	29 134.87	50,208	0	4,174	1,694	6	456	448	1,450	0	-120	2,803	
	30 134.41	48,350	-1,858	2,412	1,694	6	454	460	1,452	0	-204	2,767	
	31 133.76	45,776	-2,574	2,229	1,680	6	452	434	1,456	0	-775	2,779	
Total				14,220	177,375	56,553	207	15,570	17,080	61,728	0	-12,017	102,761

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

Table 7. Oroville-Thermalito Complex

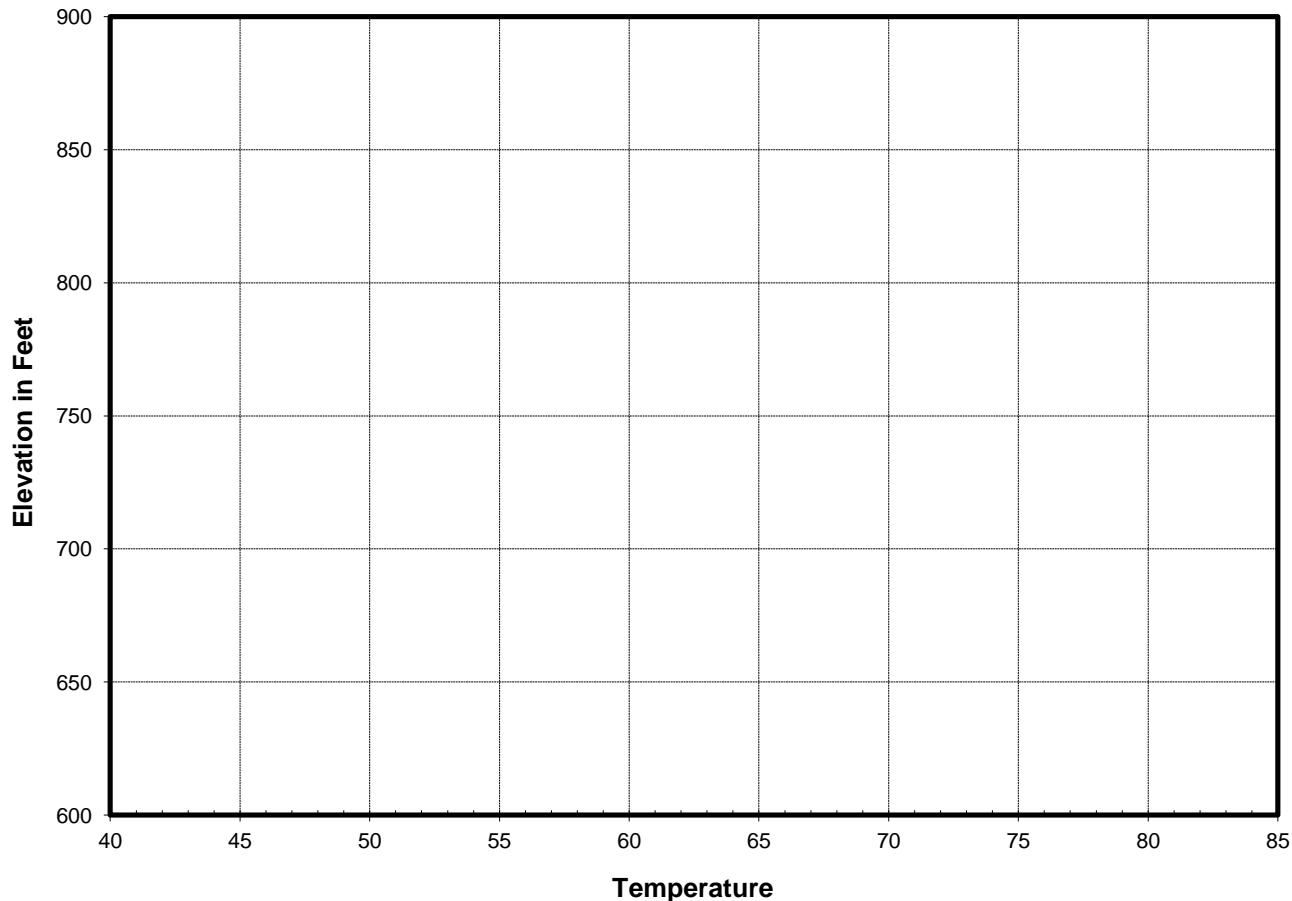
Water Temperature Data

(in degrees Fahrenheit)

December 2009

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	49	53.2
2	49	52.8
3	49	52.4
4	50	52
5	49	51.9
6	48	51.4
7	47	50.8
8	46	49.7
9	45	49.9
10	45	49.3
11	45	49.1
12	45	49
13	45	49.1
14	46	48.6
15	46	48.7
16	46	48.9
17	47	48.8
18	47	48.5
19	47	48.3
20	47	48.3
21	47	48.2
22	47	48
23	46	47.6
24	46	47.4
25	46	47.7
26	45	47.5
27	46	47.2
28	46	46.9
29	45	46.9
30	45	46.9
31	45	46.8

Lake Oroville Temperature Profile
No Data Available



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

December 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			Table A	Permit	Article 56C	Settlement	Other	
	No.	Structure	Mile								
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	1,611	57	202	119	278		
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis AFB	57						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	119						
				Solano County Water Agency Fairfield / Vacaville 42"	480						
	2		17.00	Solano County Water Agency Central Solano	Stub	18	173	10			
	3A	Cordelia Forebay	21.23								
		Cordelia Pumping Plant & Cordelia Spillway	21.30		976						
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	18						
				Solano County Water Agency Benicia	10						
3B	2	Cordelia Surge Tank	23.33			775					
		Creston Surge Tank Connection	25.65								
			26.95	Napa County Flood Control & WCD American Canyon 2	173						
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
		Napa Terminal Tank	27.58	City of Napa	775						
			27.60	Napa County Flood Control & WCD American Canyon 1	0						

Table 9. Delta Field Division Plant Data

(in acre-feet)

December 2009

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	95	62	7,704	7,704	0	0	0	345
2	95	35	6,900	6,900	0	0	0	174
3	89	32	3,850	3,850	0	0	0	308
4	80	29	3,855	3,855	0	0	0	345
5	76	32	3,858	3,858	0	0	0	345
6	75	34	3,882	3,882	0	0	0	0
7	61	33	4,005	4,005	0	0	0	0
8	64	37	3,890	3,890	0	0	0	0
9	59	34	3,905	3,905	0	0	0	153
10	67	31	4,086	4,086	0	0	0	0
11	64	34	4,614	4,614	0	0	0	153
12	33	29	4,694	4,694	0	0	0	153
13	30	28	5,631	5,631	0	0	0	331
14	33	31	7,668	7,668	0	0	0	320
15	28	28	8,746	8,746	0	0	0	305
16	29	29	9,324	9,324	0	0	0	298
17	37	36	9,627	9,627	0	0	0	290
18	29	30	8,905	8,905	0	0	0	291
19	32	25	8,896	8,896	0	0	0	317
20	49	31	8,788	8,788	0	0	0	159
21	37	24	7,799	7,799	0	0	0	159
22	50	32	6,836	6,836	0	0	0	190
23	44	28	5,866	5,866	0	0	0	0
24	49	31	10,105	10,105	0	0	0	0
25	50	30	8,923	8,923	0	0	0	0
26	39	22	7,955	7,955	0	0	0	0
27	49	33	7,929	7,929	0	0	0	0
28	49	28	7,847	7,847	0	0	0	0
29	52	31	6,809	6,809	0	0	0	0
30	32	24	6,956	6,956	0	0	0	0
31	35	33	5,880	5,880	0	0	0	0
Total	1,611	976	205,733	205,733	0	0	0	4,636

Table 10. Clifton Court Forebay

Daily Operation of Gates

December 2009

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	4:20	10:50	12:30	14:45	17:15	19:00			6,929
2	3:30	14:20							5,845
3	0:01	0:45	3:45	10:40					3,967
4	4:30	9:45							3,950
5	5:15	10:00							3,944
6	6:00	10:07	16:28	17:34					3,965
7	0:01	3:30	7:00	13:25					3,962
8	0:01	4:00	7:45	11:10					3,960
9	0:01	3:00	9:15	13:05					3,825
10	1:15	4:39	9:13	10:45	14:00	19:36			3,892
11	0:21	6:45	9:45	11:45	14:55	19:24			4,848
12	1:00	8:55	10:00	11:30					4,922
13	1:00	5:29	16:15	18:00					5,738
14	1:45	7:15	16:15	18:20					7,929
15	3:00	15:00							8,897
16	3:15	15:30							8,920
17	0:01	0:45	2:45	15:10					8,914
18	0:01	1:15	4:30	16:41					8,905
19	0:01	2:00	5:30	18:00					8,918
20	0:01	2:30	5:30	17:50					8,896
21	0:01	3:15	6:15	14:35					7,927
22	6:45	13:25							6,922
23	0:01	2:00	7:30	14:40	23:15				6,964
24	8:00	16:45							8,901
25	0:45	5:12	6:40	9:45	13:15	17:12			7,912
26	0:15	10:45	14:00	16:50					7,912
27	0:01	11:45	15:35	16:35					7,929
28	0:30	11:30	19:50	21:40					7,923
29	1:15	8:16	16:30	17:23					6,938
30	2:00	14:00							6,892
31	2:45	13:40							5,944
Total inflow for the month in AF:									203,290

Table 11. Governor Edmund G. Brown California Aqueduct

Delta Field Division, Monthly Deliveries

(In acre-feet)

December 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	USBR	General Conveyance	Drought Water Bank	Local Other		
	No.	Structure										
1A			1.83	Byron-Bethany I.D.	506					506		
1	1	Banks Pumping Plant	3.32		205,733	21	21	38	4	9		
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aquaduct)	0							
		Check No. 1	5.95									
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0							
	2	Check No. 2	12.01									
			12.47	Musco Olive	21							
		Check No. 3	18.29									
	3		22.16	Tracy Golf & Country Club	0							
		Check No. 4	23.99									
2A	4	Check No. 5	29.73									
	5	Check No. 6	34.24									
	6		35.22	Turlock Fruit Company Inflow	0							
		Check No. 7	39.91									
	7		42.46	Oak Flat Water District-A	0							
			42.9	Western Hills WD	38							
			43.81	Oak Flat Water District-B	0							
			44.64	Oak Flat Water District-C	4							
		Check No. 8	45.97									
2B	8		46.18	Oak Flat Water District-D	9							
				Oak Flat Totals:	13	13	0	0	0	0		
	9	Check No. 9	51.3									
		Check No. 10	56.86									
	10	Check No. 11	61.4									
	11		66.14	Veteran's Cemetery	6							
		Check No. 12	66.71		204,870							

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

December 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending		No.	Structure	Mile		Table A	Local	Article 56C	Semitropic Bank Recovery
	No.	Structure								
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)		0	4	58	59	45
			3.17	Granite - Vasco Rd. (Temp.)		0				
			3.18	Oakland Scavenger Zone 7		0				
	Check No. 1	3.91								
	2	Check No. 2	5.21							
			7.21	Zone 7 Water Agency Altamont		0				
2	3	Check No. 3	9.49	Zone 7 Water Agency Patterson			4	58	59	2
				Storage Exchange Project Water		0				
4	4	Check No. 4	10.68							
	5	Check No. 5	12.29							
	6		13.55	Zone 7 Water Agency Wente #1		0				
			14.16	Zone 7 Water Agency Wente #2		0				
			14.31	Zone 7 Water Agency Ising		0				
			14.65							
	7		14.78	Zone 7 Water Agency Arroyo Mocho Project Water		0				
			16.38							
5	8	Del Valle Branch Pipeline Junction	16.57	Zone 7 Water Agency Wente #3		0				
			16.63	Zone 7 Water Agency Wente #4		4				
			16.69	Zone 7 Water Agency Norman Nursery		0				
			16.70	Zone 7 Water Agency Concannon Project Water		0				
			18.63	Pumped into Lake Del Valle		0				
				Pumped into South Bay Aqueduct		0				
				Gravity into South Bay Aqueduct		4,636				
				Zone 7 Water Agency Arroyo Valle #1 & #2			58	59	45	2
				Project Water		58				
				Storage Exchange		59				
				Inflow Release		45				
6			19.20	East Bay Regional Park Dist.			7	162	984	2
				Del Valle Recreation		2				
				Zone 7 Water Agency Wente #5		7				
7		La Costa Tunnel	22.50	Zone 7 Water Agency So. Livermore Project			27	135	456	456
				Storage Exchange		162				
			25.97	Project Water		984				
8		Mission Tunnel	28.97	ACWD - Bayside 1 & 2			27	135	456	456
9		Santa Clara Pipeline	35.86	Project Water		984				
				Storage Exchange		27	1,848	1,848	1,848	1,848
				S.C.V.W.D. Meter		2,304				

Table 13. Lake Del Valle
Daily Operation

Capacity: 77,106 ac-ft

December 2009

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow	
Nov 30	692.50	32,917									
1	692.11	32,674	-243	109	0	0	345	1	6	352	0.00
2	691.71	32,426	-248	-70	0	0	174	1	2	177	0.00
3	691.38	32,223	-203	106	0	0	308	0	1	309	0.00
4	690.97	31,971	-252	97	0	0	345	0	4	349	0.00
5	690.58	31,733	-238	109	0	0	345	0	2	347	0.00
6	690.19	31,496	-237	-234	0	0	0	0	3	3	0.02
7	689.86	31,297	-199	-199	0	0	0	0	1	1	0.51
8	689.49	31,074	-222	-222	0	0	0	0	1	1	0.00
9	689.12	30,853	-221	-66	0	0	153	0	2	155	0.00
10	688.74	30,627	-226	-226	0	0	0	0	0	0	0.00
11	688.40	30,426	-201	-47	0	0	153	0	2	155	0.28
12	688.08	30,237	-189	-33	0	0	153	0	2	155	0.19
13	687.71	30,020	-217	115	0	0	331	0	0	331	0.46
14	687.36	29,816	-204	116	0	0	320	0	0	320	0.02
15	687.01	29,613	-203	103	0	0	305	0	1	306	0.00
16	686.66	29,411	-202	97	0	0	298	0	1	299	0.06
17	686.32	29,216	-195	97	0	0	290	0	2	292	0.00
18	685.97	29,017	-200	92	0	0	291	0	1	292	0.00
19	685.58	28,795	-221	97	0	0	317	0	2	319	0.00
20	685.19	28,575	-220	-60	0	0	159	0	1	160	0.00
21	684.82	28,368	-207	-47	0	0	159	0	1	160	0.02
22	684.56	28,223	-145	45	0	0	190	0	0	190	0.21
23	684.57	28,229	6	9	0	0	0	0	3	3	0.00
24	684.57	28,229	0	3	0	0	0	0	3	3	0.00
25	684.58	28,234	6	8	0	0	0	0	2	2	0.00
26	684.60	28,245	11	14	0	0	0	0	2	2	0.00
27	684.61	28,251	6	7	0	0	0	0	1	1	0.28
28	684.62	28,256	6	7	0	0	0	0	1	1	0.01
29	684.62	28,256	0	1	0	0	0	0	1	1	0.08
30	684.65	28,273	17	18	0	0	0	0	1	1	0.02
31	684.65	28,273	0	1	0	0	0	0	1	1	0.00
Total				-4,644	45	0	0	4,636	2	51	4,689
											2.16

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.

3/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

December 2009

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliv-eries 2/		
Nov 30	223.43	52,196											
1	223.51	52,410	214	0	1,888	0	3,189	0	4,430	792	3	256	
2	222.41	49,474	-2,936	0	1,919	0	3,628	0	6,189	1,160	3	325	
3	221.57	47,257	-2,217	0	1,873	0	2,032	0	4,507	830	3	317	
4	221.49	47,046	-211	0	1,876	0	1,649	0	2,587	1,175	3	134	
5	220.68	44,923	-2,123	0	1,906	0	1,968	0	3,848	1,454	3	361	
6	219.97	43,074	-1,849	0	1,881	0	2,393	0	4,680	1,190	3	667	
7	220.30	43,931	857	0	1,912	0	1,860	0	2,563	1,134	3	360	
8	220.52	44,505	574	0	1,913	0	1,908	0	2,272	1,114	3	-143	
9	220.64	44,818	313	0	1,923	0	2,120	0	2,822	967	3	-93	
10	220.96	45,656	838	0	1,906	0	2,247	0	2,728	990	3	-10	
11	221.06	45,918	262	0	1,910	0	2,232	0	2,914	1,041	3	-52	
12	221.66	47,493	1,575	0	1,881	0	2,563	0	2,552	776	3	-319	
13	221.26	46,442	-1,051	0	1,890	0	3,128	0	4,578	837	3	-130	
14	222.75	50,379	3,937	0	1,897	0	3,435	0	2,541	726	3	-77	
15	222.76	50,406	27	0	1,900	0	4,729	0	5,723	749	3	-140	
16	221.50	47,073	-3,333	0	2,370	0	4,286	0	7,520	419	3	-394	
17	221.74	47,703	630	0	2,829	0	5,117	0	7,304	403	3	82	
18	221.19	46,259	-1,444	0	2,937	0	4,322	0	7,030	624	3	-330	
19	221.34	46,653	394	0	2,911	0	4,557	0	6,490	609	3	-167	
20	221.50	47,073	420	0	2,917	0	4,684	0	6,472	609	3	-305	
21	220.95	45,629	-1,444	2	2,935	0	3,646	0	6,460	608	3	-240	
22	220.22	43,723	-1,906	2	2,950	0	3,581	0	6,436	1,037	3	-18	
23	218.83	40,153	-3,570	2	2,902	0	2,922	0	6,412	1,036	3	-175	
24	220.28	43,879	3,726	2	2,321	0	5,131	0	4,825	802	2	54	
25	220.36	44,088	209	2	1,945	0	4,355	0	5,200	770	2	-225	
26	220.30	43,931	-157	0	1,949	0	4,051	0	5,380	650	2	-47	
27	219.88	42,841	-1,090	0	1,944	0	3,801	0	5,362	1,004	2	73	
28	220.40	44,192	1,351	0	1,917	0	3,840	0	4,280	663	2	-131	
29	221.11	46,049	1,857	0	1,891	0	3,542	0	4,014	692	2	211	
30	221.80	47,861	1,812	0	1,280	0	3,549	0	3,295	536	2	-82	
31	221.41	46,836	-1,025	0	877	0	2,823	0	3,721	509	2	15	
Total				-5,360	10	65,350	0	103,288	0	145,135	25,906	85	-224
Mean cfs				---	0	2,108	0	3,332	0	4,682	836	3	-7
Acre-feet				-5,360	21	129,626	0	204,870	0	287,869	51,381	169	-458

1/ Pump-in located at Mile 79.67R.

2/ Includes 127 AF delivered to DFG at O'Neill Forebay, 0 AF to Parks & Rec., 1 AF to Cattle Program, 21 AF to San Luis Water District, and 20 AF Pump-In Credit.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

December 2009

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.		
Nov 30	410.06	605,139							
1	410.95	612,629	7,490	4,430	0	128	0	-526	
2	412.22	623,376	10,747	6,189	0	114	0	-657	
3	413.14	631,205	7,829	4,507	0	112	0	-448	
4	413.63	635,390	4,185	2,587	0	122	0	-355	
5	414.38	641,815	6,425	3,848	0	112	0	-497	
6	415.24	649,213	7,398	4,680	0	106	0	-844	
7	415.65	652,750	3,537	2,563	0	97	0	-683	
8	416.15	657,075	4,325	2,272	0	68	0	-24	
9	416.72	662,017	4,942	2,822	0	69	0	-261	
10	417.32	667,235	5,218	2,728	0	88	0	-9	
11	417.95	672,730	5,495	2,914	0	107	0	-37	
12	418.58	678,242	5,512	2,552	0	80	0	307	
13	419.57	686,937	8,695	4,578	0	89	0	-105	
14	420.10	691,609	4,672	2,541	0	91	0	-95	
15	421.31	702,320	10,711	5,723	0	98	0	-225	
16	422.97	717,115	14,795	7,520	0	96	0	35	
17	424.54	731,213	14,098	7,304	0	82	0	-114	
18	426.10	745,311	14,098	7,030	0	84	0	162	
19	427.40	757,122	11,811	6,490	0	85	0	-450	
20	428.70	768,996	11,874	6,472	0	91	0	-395	
21	430.12	782,039	13,043	6,460	0	91	0	207	
22	431.42	794,045	12,006	6,436	0	96	0	-287	
23	432.70	805,927	11,882	6,412	0	88	0	-334	
24	433.66	814,878	8,951	4,825	0	130	0	-182	
25	434.70	824,613	9,735	5,200	0	145	0	-147	
26	435.80	834,953	10,340	5,380	0	130	0	-37	
27	436.87	845,052	10,099	5,362	0	137	0	-133	
28	437.68	852,725	7,673	4,280	0	135	0	-277	
29	438.47	860,230	7,505	4,014	0	140	0	-90	
30	439.08	866,041	5,811	3,295	0	154	0	-211	
31	439.88	873,682	7,641	3,721	0	0	0	131	
Total			268,543	145,135	0	3,165	0	-6,581	
Mean cfs			---	4,682	0	102	0	-212	
Acre-feet			268,543	287,869	0	6,274	0	-13,052	

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 6,132 AF, Casa De Fruta 0 AF, and San Benito 142 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

December 2009

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	1,570	1,041	0	0	8,787	7,128	254
2	2,300	1,761	0	0	12,275	6,568	227
3	1,646	1,646	0	0	8,940	5,271	223
4	2,331	1,973	0	0	5,131	2,752	241
5	2,885	2,527	0	0	7,632	1,663	223
6	2,361	2,006	0	0	9,283	2,112	210
7	2,249	1,890	0	0	5,083	2,891	193
8	2,209	1,854	0	0	4,506	2,515	134
9	1,919	1,565	0	0	5,597	1,121	136
10	1,964	1,609	0	0	5,410	2,437	175
11	2,064	1,704	0	0	5,779	1,287	212
12	1,539	1,190	0	0	5,061	970	158
13	1,660	1,310	0	0	9,081	280	176
14	1,440	1,092	0	0	5,041	3,547	181
15	1,486	1,130	0	0	11,351	9,507	194
16	831	489	0	0	14,916	11,431	191
17	800	461	0	0	14,487	9,936	162
18	1,237	882	0	0	13,944	9,517	166
19	1,208	855	0	0	12,873	8,442	168
20	1,207	859	0	0	12,838	3,819	180
21	1,206	851	0	0	12,813	8,404	180
22	2,056	1,692	0	0	12,766	8,025	190
23	2,054	1,697	0	0	12,719	7,994	175
24	1,590	1,242	0	0	9,570	6,160	258
25	1,528	1,177	0	0	10,314	6,964	288
26	1,289	946	0	0	10,671	7,321	258
27	1,991	1,684	0	0	10,635	2,245	271
28	1,316	965	0	0	8,489	5,678	268
29	1,373	1,028	0	0	7,961	5,168	277
30	1,063	710	0	0	6,535	5,124	305
31	1,009	661	0	0	7,381	5,976	0
Total	51,381	40,497	0	0	287,869	162,253	6,274

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations
December 2009

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Nov 30	320.86	17,457					
1	320.85	17,453	-4	0	0	0	-4
2	320.85	17,453	0	0	0	0	0
3	320.84	17,448	-5	0	0	0	-5
4	320.84	17,448	0	0	0	0	0
5	320.83	17,444	-4	0	0	0	-4
6	320.83	17,444	0	0	0	0	0
7	320.82	17,440	-4	0	0	0	-4
8	320.81	17,436	-4	0	0	0	-4
9	320.80	17,431	-5	0	0	0	-5
10	320.83	17,444	13	7	0	0	-1
11	320.85	17,453	9	5	0	0	-1
12	320.90	17,474	21	11	0	0	-1
13	320.89	17,470	-4	0	0	0	-4
14	320.88	17,466	-4	0	0	0	-4
15	320.87	17,461	-5	0	0	0	-5
16	320.87	17,461	0	0	0	0	0
17	320.88	17,466	5	3	0	0	-1
18	320.87	17,461	-5	0	0	0	-5
19	320.86	17,457	-4	0	0	0	-4
20	320.86	17,457	0	0	0	0	0
21	320.89	17,470	13	7	0	0	-1
22	320.86	17,457	-13	0	0	0	-13
23	320.84	17,448	-9	0	0	0	-9
24	320.83	17,444	-4	0	0	0	-4
25	320.84	17,448	4	2	0	0	0
26	320.85	17,453	5	3	0	0	-1
27	320.86	17,457	4	2	0	0	0
28	320.87	17,461	4	2	0	0	0
29	320.87	17,461	0	0	0	0	0
30	320.87	17,461	0	0	0	0	0
31	320.86	17,457	-4	0	0	0	-4
Total			0	42	0	0	-83
Mean cfs			---	1	0	0	---
Acre-feet			0	83	0	0	-83

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

December 2009

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Nov 30	598.00	616					
1	Not Observed						
2	Not Observed						
3	598.00						
4	Not Observed						
5	Not Observed						
6	Not Observed						
7	598.00	588	-28	0	0	0	-28
8	Not Observed						
9	Not Observed						
10	598.10	593	5	3	0	0	-1
11	598.10	593	0	0	0	0	0
12	Not Observed						
13	Not Observed						
14	598.20	597	4	2	0	0	0
15	Not Observed						
16	Not Observed						
17	Not Observed						
18	Not Observed						
19	Not Observed						
20	Not Observed						
21	Not Observed						
22	Not Observed						
23	Not Observed						
24	Not Observed						
25	Not Observed						
26	Not Observed						
27	Not Observed						
28	Not Observed						
29	Not Observed						
30	Not Observed						
31	598.20	597	0	0	0	0	0
Total			-19	5	0	0	-29
Mean cfs			---	1	0	0	---
Acre-feet			-19	10	0	0	-29

1/ Not available on a daily basis.

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

(In acre-feet)

December 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries			
	Beginning and Ending		No.			USBR	Transfer	DWR Recreation	USBR Recreation
			Structure	Mile					
2B	12	Check No. 12	66.71		204,870				
3A	San Luis Reservoir			Department of Parks and Recreation	0	6,132	142	0	0
				San Felipe Division Santa Clara Water District	6,132				
				Casa de Fruta Santa Clara Water District	0				
				San Felipe Division San Benito Water District	142				
				Reach 3A Subtotal:	6,274				
3	O'Neill Forebay		70.85	Department of Parks and Recreation	0	6,274	0	0	0
				Cattle Program	1				
				Department of Fish & Game	127				
			70.91 Thru 85.08	San Luis Water District	21	21	1 / 20	70	57
				(Floodwater Inflow)	20				
				Reach 3 Subtotal:	169				
			Dos Amigos Pumping Plant	86.73	51,381				
4		14	89.03	San Luis Water District	184	184	2	0	0
			Thru 94.06						
			89.66	Pacheco Water District	49				
			Thru 89.67						
			89.68	Panoche Water District	34				
		15	89.70	City of Dos Palos	64	237	569	0	0
			Check No. 14	95.06					
			98.15	San Luis Water District	2				
			Thru 104.20						
			96.15	Panoche Water District	237				
		102.64	Thru (Floodwater Inflow)		0	237	569	0	0
			102.64	Broadview Water District	0				
			105.22	Westlands Water District	569				
			Thru 108.64						
		Check No. 15	108.50			1,139	0	0	0
			Reach 4 Subtotal:	1,139					
			San Felipe Division Total:	6,274					
			Pacheco Water District Total:	49					
		Broadview Water District Total:	0			49	0	0	0
			City of Dos Palos Total:	64					
			SLWD Reach 4 Subtotal:	186					
			Panoche Water District Total:	271					
		SLWD Total:	207			271	0	0	0
			Westlands WD Reach 4 Subtotal:	569					

1/ Pump-in Credit recovered by San Luis Water District.

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

December 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation				
	No.	Structure											
5	16		110.52	(Reverse flow, Kings River)	0	892			79				
				Westlands Water District	892								
				Thru Dept. of Fish and Game @ Lat. 4L	0								
				122.05 Dept. of Fish and Game @ Lat. 6L	79								
				Dept. of Fish and Game @ Lat. 7L	0								
	17	Check No. 16	122.07			159							
			124.18	Westlands Water District	159								
			132.74										
	18	Check No. 17	132.95			1,291							
			133.81	Westlands Water District	1,291								
			142.61										
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	878		878						
			143.16	City of Coalinga	308								
		Check No. 18	143.23										
					Reach 5 Subtotal:	3,607	3,528	0	0				
6	19		145.26	GWF Energy	1	1,189	1/ 1						
				City of Huron	0								
				SWP Construction @ Lat. 24R	0		2/ 101						
				Thru Kings County to Lemoore NAS Through WWD	101								
				DWR Water Truck	3								
				Westlands Water District	1,189								
			Check No. 19	155.64									
							1,192	102	0				
7	20		156.34	City of Huron	58	58							
				156.40 SWP Construction @ Lat. 24R	0								
				Thru Kings County through WWD 31L, 32L, 33L, 34L, 35L, 36L	0		652						
				163.69 Westlands Water District	652								
			Check No. 20	164.69									
	21		164.79	City of Avenal	148	148							
				167.04 Thru Westlands Water District	176								
				171.67									
			Check No. 21	172.40	42,257								
				Reach 7 Total:	1,034	1,034	0	0	0				
				SWP Construction Total:	0	0	0	0	0				
				Westlands WD Total:	5,806	5,806	0	0	0				
				City of Coalinga Total:	308	308	0	0	0				
				City of Huron Total:	58	58	0	0	0				
				Kings County to Lemoore NAS Through WWD	101	0	101	0	0				
				City of Avenal Total:	148	148	0	0	0				
Total San Luis Field Division Deliveries:					13,517	13,208	102	71	136				

1/ GWF Energy (Henrietta Peaker Project) from County of Kings to Westlands Water District.

2/ From County of Kings to Lemoore NAS through WWD 29L and 30L.

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations
December 2009

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Nov 30	28,446								
1	28,245	-201	0	792	12	13	182	631	-55
2	28,065	-180	0	1,160	12	13	182	992	-52
3	27,341	-724	0	830	1	9	155	850	-181
4	27,231	-110	0	1,175	1	9	155	950	-115
5	27,406	175	0	1,454	2	9	155	1,047	-153
6	27,758	352	0	1,190	2	9	155	821	-26
7	27,826	68	0	1,134	2	9	155	971	37
8	28,583	757	0	1,114	2	9	155	458	-109
9	28,332	-251	0	967	1	9	155	969	40
10	28,071	-261	0	990	11	9	95	963	-43
11	28,199	128	0	1,041	11	9	95	804	-57
12	28,528	329	0	776	11	6	95	504	6
13	28,484	-44	0	837	11	0	88	787	27
14	28,262	-222	0	726	11	0	88	643	-96
15	28,496	234	0	749	11	0	88	478	-54
16	28,709	213	0	419	11	0	88	194	-19
17	28,731	22	0	403	1	3	88	238	-62
18	28,530	-201	0	624	1	3	83	597	-41
19	28,517	-13	0	609	2	3	74	490	-47
20	28,479	-38	0	609	1	3	79	537	-8
21	28,136	-343	0	608	1	3	79	685	-13
22	28,582	446	0	1,037	1	3	79	670	-59
23	28,378	-204	0	1,036	2	3	79	958	-97
24	28,335	-43	0	802	2	3	79	651	-88
25	28,477	142	0	770	2	0	79	627	9
26	28,416	-61	0	650	3	0	79	558	-41
27	28,543	127	0	1,004	3	0	79	997	139
28	28,232	-311	0	663	5	0	79	747	11
29	28,005	-227	0	692	5	0	79	651	-72
30	27,971	-34	0	536	5	0	79	418	-51
31	27,909	-62	0	509	5	0	79	417	-39
Total		-537	0	25,906	151	137	3,279	21,304	-1,305
Mean cfs		---	0	836	5	4	106	687	-42
Acre-feet		-537	0	51,381	299	271	6,504	42,257	-2,587

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 49 AF to Pacheco W.D., 64 AF to the City of Dos Palos and 186 AF to San Luis Water District.

3/ Includes 58 AF to the City of Huron, 148 AF to the City of Avenal, 308 AF to the City of Coalinga, 0 AF to Huron P&R @ 22R, 101 AF to Lemoore N.A.S. @ 30L, 1 AF to GWF @ 30L, 3 AF to DWR Water Truck, 0 AF to Kings County @ 30L, 0 AF to Broadview WD @ 3L, 0 AF to DFG @ 4L, 79 AF to Mendota Water Fowl Habitat Area @ 6L, 0 AF to DFG @ 7L, 0 AF to Non-Project Water, 4,928 AF to Westlands Water District and 878 AF to Pleasant Valley Pumping Plant.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

December 2009

23

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	0	6	20	21	24	2,409	2,744	2,645	2,694
2	0	3	21	17	21	2,388	2,616	2,572	2,607
3	0	10	25	20	22	2,656	2,907	2,848	2,893
4	0	4	13	11	13	2,886	2,972	2,902	2,920
5	0	62	0	0	0	2,869	2,912	2,850	2,893
6	98	110	0	0	0	2,724	3,014	2,954	2,944
7	99	12	28	26	27	2,661	2,838	2,748	2,589
8	11	57	28	26	31	1,857	1,733	1,687	1,702
9	50	66	30	28	32	2,051	2,240	2,195	2,332
10	60	51	40	35	40	2,904	2,829	2,616	2,629
11	38	53	37	35	40	2,807	2,618	2,560	2,627
12	44	75	46	42	46	2,170	2,502	2,451	2,536
13	67	14	59	55	61	2,640	2,756	2,661	2,667
14	12	45	13	10	14	2,553	2,574	2,536	2,594
15	24	73	26	24	27	1,837	1,959	1,925	1,909
16	72	43	53	48	54	1,113	1,045	1,000	1,042
17	36	49	38	34	39	1,522	2,029	2,013	2,095
18	39	30	37	33	38	1,653	1,909	1,859	1,934
19	25	84	30	27	30	2,089	2,797	2,664	2,748
20	77	39	59	44	50	2,146	2,494	2,424	2,523
21	35	27	31	28	33	2,230	2,739	2,587	2,595
22	23	59	36	33	37	2,265	2,723	2,632	2,691
23	48	37	40	36	40	2,409	2,798	2,740	2,777
24	33	30	27	24	29	2,023	2,193	2,094	2,179
25	27	41	30	27	30	2,017	2,181	2,114	2,206
26	34	60	42	38	42	1,837	2,379	2,303	2,313
27	53	35	44	39	43	2,551	2,911	2,885	2,817
28	28	41	22	20	24	2,383	2,779	2,684	2,737
29	36	61	36	32	37	2,341	2,775	2,687	2,766
30	47	44	49	44	49	1,702	2,141	2,075	2,097
31	41	0	29	26	30	1,646	2,050	1,990	2,070
Total	1,156	1,320	989	883	1,003	69,339	77,157	74,902	76,124

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

December 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	USBR	Kern Water Bank Recovery	Pump Recovery	Other		
	No.	Structure	Mile									
7	21	Check No. 21	172.40		42,257							
8C	22		172.66	Empire West Side ID TL - A	0	17	3					
				County of Kings TL - A	0							
				Tulare Lake Basin WSD TL-A	0							
			175.18	Dudley Ridge WD - 1	0							
			177.54	Dudley Ridge WD - 1B	0							
			180.64	Tulare Lake Basin WSD - C	0							
			180.65	Dudley Ridge WD - 1A	17							
			182.99	Dudley Ridge WD - 2	3							
			183.00	Tulare Lake Basin WSD TL - B	0							
				County of Kings TL-B	0							
8D			184.00	Dudley Ridge WD - Paramount	0							
			184.63	Coastal Branch	1,156							
31A	8D		184.78	Dudley Ridge WD - 3	0							
Dudley Ridge Reach 8D Total:			20	20	0	0	0	0				
Tulare Lake Basin WSD Total:			0	0	0	0	0	0				
Check No. 22		184.82										
9	23		189.69	Kern County Water Agency Lost Hills Water Dist. - 1	19				19			
			191.18	Kern County Water Agency Lost Hills Water Dist. - 2	0							
			194.22	Kern County Water Agency Lost Hills Water Dist. - 3	0							
			196.40	Kern County Water Agency Berrenda Mesa - 2	0							
			196.75	Kern County Water Agency Lost Hills Water Dist. - 4	0							
			KCWA Reach 9 Subtotal:		19		0	0	0	0		
			Check No. 23	197.05								
10A	24		201.24	Kern County Water Agency Lost Hills Water Dist. - 7	54				54			
			202.05	Kern County Water Agency Lost Hills Water Dist. - 5	1							
			204.69	Kern County Water Agency Lost Hills Water Dist. - 6	0							
			205.26	Kern County Water Agency Lost Hills Water Dist. - 8	0							
			Check No. 24	207.94								
			209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	8		2,796		8			
			209.78	Kern National Wildlife Refuge USBR BV-1B	2,796							
				Kern County Water Agency Buena Vista WSD 1B	0							
			209.80	KCWA Semitropic WSD	0							
				KCWA Semitropic WSD Penstocks	0							
			USBR Total:		2,796	0	2,796	0	0	0		
			KCWA Reach 10A Subtotal:		63	0	0	0	63	0		

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

December 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Kern Water Bank Recovery	Pump Recovery	Other		
	No.	Structure	Mile									
11B	25		210.75	Kern County Water Agency Belridge - 2	0				287			
			214.11	Kern County Water Agency Belridge - 3	287							
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5A-C	630							
				Kern County Water Agency Belridge - 5D	115							
			Check No. 25	217.79								
				KCWA Reach 11B Subtotal:	1,032	0	0	0	1,032	0		
12D	26		219.58	Kern County Water Agency Belridge - 6	0				423			
				Kern County Water Agency West Kern - 3	423							
			Check No. 26	224.92								
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0							
			Check No. 27	231.73								
			235.75	Kern County Water Agency Buena Vista - 2	0							
			238.04	Kern County WA CVC	0							
				DRWD CVC	0							
				Tulare Co.	0							
				Lower Tule River	0							
				Fresno Co.	0							
				Pixley ID	0							
				Hacienda								
				DWR Wells	0							
			Check No. 28	238.11								
				1/ Arvin Edison Total:	0	0	0	0	0	0		
				Reach 12E Subtotal:	0	0	0	0	0	0		
13B	29		238.19	Kern Water Bank Inflow	0							
				Kern Water Bank Outflow	0							
			241.02	Kern River Intertie (inflow)	0							
			242.85	KCWA Buena Vista WSD - 7	0							
				KCWA Buena Vista WSD - 5	0							
			243.09	Kern County Water Agency Buena Vista - 3	0							
			Check No. 29	244.54								
		30	249.85	Kern County Water Agency Buena Vista - 4	0							
			Buena Vista Pumping Plant	250.99	69,339							
				KCWA Reach 13B Subtotal:	0	0	0	0	0	0		
14A	31		254.47	Kern County Water Agency West Kern - 2	0				82			
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	82							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

December 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Kern Water Bank Recovery	Pump Recovery	Other		
	No.	Structure	Mile									
14A	31	Check No. 31	256.14									
	32		258.61		Kern County Water Agency Wheeler Ridge-Maricopa - 3							
			260.44		Kern County Water Agency Wheeler Ridge-Maricopa - 4							
		Check No. 32	261.72									
					KCWA Reach 14A Subtotal:	387	0	0	0	387		
14B	33		264.42		Kern County Water Agency Wheeler Ridge-Maricopa - 5							
			266.91		Kern County Water Agency Wheeler Ridge-Maricopa - 6							
		Check No. 33	267.36									
	34		270.24		Kern County Water Agency Wheeler Ridge-Maricopa - 7							
			271.27									
					Reach 14B Total:	1,105	0	0	0	1,105		
14C	35		272.39		Kern County Water Agency Wheeler Ridge-Maricopa - 8							
			276.09		Kern County Water Agency Wheeler Ridge-Maricopa - 9							
			277.30		Kern County Water Agency Arvin-Edison WSD							
					Reach 14C Total:	470	0	0	0	470		
	Teerink Pumping Plant		278.13		77,157							
15A	36		279.02		Kern County Water Agency Wheeler Ridge-Maricopa - 9A							
			280.06		Kern County Water Agency Wheeler Ridge-Maricopa - 10							
					Reach 15A Total:	3	0	0	0	3		
	Chrisman Pumping Plant		280.36		74,902							
	37		282.06		Kern County Water Agency Wheeler Ridge-Maricopa - 11							
16A			283.95									
			285.01	38	Kern County Water Agency Wheeler Ridge-Maricopa - 12					22		
			286.39		Kern County Water Agency Wheeler Ridge-Maricopa - 13A							
			287.06		Kern County Water Agency Wheeler Ridge-Maricopa - 13							
Check No. 38		287.09										
39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B									
	Check No. 39	290.21										
40		291.26	16A	Kern County Water Agency Wheeler Ridge-Maricopa - 14				265	265			
		293.07		Kern County Water Agency Wheeler Ridge-Maricopa - 15								
				Kern County Water Agency Tehachapi Cummings CWD								
				KCWA Reach 16A Subtotal:	300	0	0	0	300			
17E	Edmonston Pumping Plant			293.45	76,124							

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

December 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	USBR	Kern Water Bank Recovery	Pump Recovery	Other	
	No.	Structure	Mile								
31A	C-1	Coastal Branch Control	0.02		1,156						
		Las Perillas Pumping Plant	1.16		1,156						
	C-2		3.79	Green Valley Water District	0						
		Badger Hill Pumping Plant	4.27		1,320						
	C-3	Coastal Check No. 3	7.21								
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0						
		Coastal Check No. 4	9.34								
	C-5	Coastal Check No. 5	12.20								
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	0						
			14.83	Kern County Water Agency Berrenda Mesa - 1	154					154	
				Kern County Water Agency Berrenda Mesa - PO	0						
		Devil's Den Pumping Plant	14.86		989						
				KCWA Reach 31A Subtotal:	154	0	0	0	154	0	
				KCWA Total:	3,956	0	0	0	3,956	0	
33A	C-7	Bluestone Pumping Plant	19.05		883						
	C-8	Polonio Pass Pumping Plant	26.54		1,003						
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant	0						
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	606	374				1/ 232	
	C-11	Tank Site 2	58.63	Central Coast:	0	375					
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	375						
		Energy Dissipater	78.12								
		Lopez T.O.	85.86	SLOCFC & WCD	0						
35	C-12			CCWA Total:	981	749	0	0	0	232	
		Guadalupe T.O.	102.70	SBCFC & WCD	0						
		Santa Maria T.O.	107.43	SBCFC & WCD	0						
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0						
38				SBCFC & WCD Total:	0	0	0	0	0	0	
		Tank Site 5	115.42								

1/ Transfer of San Luis Obispo's Table A to Santa Barbara.

Table 24. Southern Field Division Plant Data

(in acre-feet)

December 2009

Date	West Branch						East Branch								East Branch Extension			
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley	
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pumpback 1/	Generation	Bypass Through Plant	Tehachapi Afterbay Bypass		Generation	Leakage	Bypass Flume					
1	1,876	1,059	0	992	2,731	627	750	0	0	662	621	0	0	654	61	49	10	
2	1,741	1,060	0	992	3,546	581	789	0	0	693	717	0	0	529	61	49	26	
3	2,110	1,055	0	992	3,485	0	799	0	0	590	582	0	0	476	54	49	26	
4	2,109	1,051	0	992	3,652	0	791	0	0	583	570	0	0	810	45	45	14	
5	2,109	1,057	0	992	1,146	0	790	0	0	586	582	0	0	572	35	37	15	
6	2,108	1,056	0	992	297	835	776	0	0	585	574	0	0	592	20	19	15	
7	1,833	1,058	0	992	4,159	678	550	0	0	640	641	0	0	812	0	0	13	
8	1,324	1,061	0	992	1,165	794	70	0	801	865	776	0	0	498	53	51	13	
9	1,750	1,068	0	992	1,070	637	400	0	0	617	623	0	0	577	38	38	13	
10	1,969	1,068	0	992	2,261	0	588	0	0	312	349	0	0	415	38	38	10	
11	1,681	793	0	992	2,646	0	694	0	0	390	394	0	0	432	38	38	10	
12	1,779	999	0	992	186	1	406	0	0	533	284	0	0	426	30	29	10	
13	1,960	1,069	0	992	419	2,973	559	0	0	459	272	0	0	405	15	14	8	
14	1,866	1,069	0	992	3,509	604	551	0	0	447	482	0	0	420	0	0	0	
15	1,789	1,069	0	992	2,813	0	316	0	0	185	221	0	0	307	28	26	3	
16	1,032	1,064	0	992	3,244	0	0	0	0	0	0	0	10	0	289	28	27	0
17	1,796	1,074	0	992	3,354	0	222	0	0	148	140	0	0	233	26	26	0	
18	1,928	1,074	0	992	1,536	653	0	0	0	0	124	0	0	321	14	14	0	
19	2,516	1,076	0	992	9	0	343	0	0	136	0	13	0	379	26	26	0	
20	2,505	1,070	0	992	344	0	323	0	0	160	182	0	0	359	23	23	0	
21	2,217	912	0	992	1,293	550	188	0	0	273	329	0	0	241	0	0	0	
22	2,176	1,062	0	873	4,592	0	549	0	0	427	426	0	0	320	26	26	0	
23	2,252	1,016	0	873	1,837	715	580	0	0	427	437	0	0	317	26	26	0	
24	2,155	1,061	0	873	5,019	0	144	0	0	34	0	16	0	295	19	19	0	
25	2,185	1,066	0	873	0	0	184	0	0	46	0	14	0	310	0	0	0	
26	2,126	1,060	0	873	2,497	0	337	0	0	150	0	14	0	345	25	25	0	
27	2,028	1,062	0	873	1,141	606	614	0	0	383	371	0	0	364	26	26	0	
28	2,009	1,058	0	873	3,540	620	503	0	0	319	359	0	0	288	0	0	0	
29	2,102	1,055	0	873	2,864	0	344	0	0	275	452	0	0	287	20	21	0	
30	2,016	1,060	0	873	3,283	1,074	0	0	0	0	0	16	0	272	26	26	0	
31	2,042	1,059	0	873	2,878	0	0	0	0	0	0	17	0	269	19	19	0	
Total	61,089	32,421	0	29,562	70,516	11,948	13,160	0	801	10,925	10,508	100	0	12,814	820	786	186	

1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

December 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)		
				Project		Natural	Project		To Piru Creek				
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	Natural	Del. To United W.A.		
Nov 30	2574.53	165,460											
1	2574.24	165,092	-368	627	1,059	992	18	2,731	0	12	200	-121	
2	2573.18	163,753	-1,339	581	1,060	992	18	3,546	0	12	200	-232	
3	2571.52	161,670	-2,083	0	1,055	992	19	3,485	0	12	200	-452	
4	2569.93	159,691	-1,979	0	1,051	992	25	3,652	0	12	200	-183	
5	2570.40	160,275	584	0	1,057	992	25	1,146	0	12	200	-132	
6	2572.23	162,559	2,284	835	1,056	992	25	297	0	12	200	-115	
7	2570.87	160,859	-1,700	678	1,058	992	27	4,159	0	12	200	-84	
8	2571.99	162,258	1,399	794	1,061	992	31	1,165	0	12	200	-102	
9	2573.14	163,703	1,445	637	1,068	992	38	1,070	0	12	200	-8	
10	2573.04	163,577	-126	0	1,068	992	47	2,261	0	36	120	184	
11	2572.21	162,534	-1,043	0	793	992	86	2,646	0	14	0	-254	
12	2573.65	164,346	1,812	1	999	992	383	186	0	14	0	-363	
13	2577.27	168,960	4,614	2,973	1,069	992	467	419	1	253	0	-214	
14	2576.42	167,869	-1,091	604	1,069	992	126	3,509	0	99	0	-274	
15	2575.69	166,925	-944	0	1,069	992	53	2,813	0	99	0	-146	
16	2574.62	165,574	-1,351	0	1,064	992	35	3,244	0	56	0	-142	
17	2573.23	163,816	-1,758	0	1,074	992	29	3,354	0	40	0	-459	
18	2574.14	164,966	1,150	653	1,074	992	27	1,536	0	36	0	-24	
19	2575.59	166,808	1,842	0	1,076	992	25	9	0	32	0	-210	
20	2576.89	168,472	1,664	0	1,070	992	24	344	0	32	0	-46	
21	2577.68	169,488	1,016	550	912	992	23	1,293	0	30	0	-138	
22	2575.62	166,847	-2,641	0	1,062	873	22	4,592	0	30	0	24	
23	2576.01	167,345	498	715	1,016	873	22	1,837	0	30	0	-261	
24	2573.58	164,258	-3,087	0	1,061	873	22	5,019	0	30	0	6	
25	2575.12	166,210	1,952	0	1,066	873	21	0	0	30	0	22	
26	2574.58	165,523	-687	0	1,060	873	21	2,497	0	30	0	-114	
27	2575.62	166,847	1,324	606	1,062	873	21	1,141	0	30	0	-67	
28	2574.74	165,726	-1,121	620	1,058	873	21	3,540	0	30	0	-123	
29	2573.97	164,750	-976	0	1,055	873	20	2,864	0	30	0	-30	
30	2573.70	164,409	-341	1,074	1,060	873	21	3,283	0	30	0	-56	
31	2572.85	163,338	-1,071	0	1,059	873	21	2,878	0	30	0	-116	
Total				-2,122	11,948	32,421	29,562	1,763	70,516	1	1,149	1,920	-4,230

1/ Values supplied by LADWP, not verified by DWR.

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

December 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Nov 30	1516.14	21,625								
1	1514.80	21,079	-546	2,731	0	627	0	2,649	-1	
2	1511.94	19,938	-1,141	3,546	0	581	0	4,107	1	
3	1511.00	19,571	-367	3,485	0	0	0	3,851	-1	
4	1516.51	21,778	2,207	3,652	0	0	0	1,446	1	
5	1519.19	22,897	1,119	1,146	0	0	0	0	-27	
6	1517.87	22,342	-555	297	0	835	0	0	-17	
7	1526.34	26,013	3,671	4,159	0	678	0	0	190	
8	1519.45	23,007	-3,006	1,165	0	794	0	3,457	80	
9	1509.95	19,165	-3,842	1,070	0	637	0	4,286	11	
10	1508.63	18,661	-504	2,261	0	0	0	2,857	92	
11	1513.68	20,628	1,967	2,646	0	0	0	654	-25	
12	1514.56	20,982	354	186	0	1	0	0	169	
13	1508.48	18,604	-2,378	419	0	2,973	0	0	176	
14	1515.77	21,474	2,870	3,509	0	604	0	0	-35	
15	1516.42	21,741	267	2,813	0	0	0	2,551	5	
16	1513.94	20,732	-1,009	3,244	0	0	0	4,259	6	
17	1512.33	20,092	-640	3,354	0	0	0	3,998	4	
18	1506.52	17,869	-2,223	1,536	0	653	0	3,105	-1	
19	1506.19	17,747	-122	9	0	0	0	132	1	
20	1507.14	18,100	353	344	0	0	0	0	9	
21	1509.10	18,840	740	1,293	0	550	0	0	-3	
22	1516.03	21,580	2,740	4,592	0	0	0	1,904	52	
23	1509.38	18,946	-2,634	1,837	0	715	0	3,681	-75	
24	1512.72	20,246	1,300	5,019	0	0	0	3,719	0	
25	1504.89	17,269	-2,977	0	0	0	0	2,977	0	
26	1509.47	18,981	1,712	2,497	0	0	0	785	0	
27	1510.75	19,474	493	1,141	0	606	0	0	-42	
28	1517.88	22,346	2,872	3,540	0	620	0	0	-48	
29	1517.50	22,188	-158	2,864	0	0	0	3,021	-1	
30	1512.92	20,325	-1,863	3,283	0	1,074	0	4,071	-1	
31	1510.54	19,393	-932	2,878	0	0	0	3,811	1	
Total				-2,232	70,516	0	11,948	0	61,321	
									521	

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

December 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries	Released To Castaic Lagoon		
				Natural	Project					
Nov 30	1465.18	223,123								
1	1465.89	224,414	1,291	0	2,649	0	1,334	0	-24	
2	1467.41	227,191	2,777	0	4,107	0	1,197	0	-133	
3	1468.93	229,986	2,795	0	3,851	0	1,063	0	7	
4	1469.18	230,447	461	0	1,446	0	967	0	-18	
5	1468.66	229,488	-959	0	0	0	967	0	8	
6	1468.14	228,531	-957	0	0	0	883	0	-74	
7	1467.77	227,851	-680	0	0	0	853	0	173	
8	1469.17	230,429	2,578	0	3,457	0	734	0	-145	
9	1470.97	233,765	3,336	0	4,286	0	717	0	-233	
10	1472.13	235,929	2,164	0	2,857	0	678	0	-15	
11	1472.18	236,023	94	0	654	0	688	0	128	
12	1472.05	235,780	-243	0	0	0	650	0	407	
13	1471.70	235,126	-654	0	0	0	615	0	-39	
14	1471.34	234,454	-672	0	0	0	586	0	-86	
15	1472.41	236,453	1,999	0	2,551	0	565	0	13	
16	1474.37	240,138	3,685	0	4,259	0	609	0	35	
17	1476.17	243,549	3,411	0	3,998	0	625	0	38	
18	1477.41	245,914	2,365	0	3,105	0	703	0	-37	
19	1477.09	245,302	-612	0	132	0	783	0	39	
20	1476.62	244,406	-896	0	0	0	849	0	-47	
21	1475.94	243,112	-1,294	0	0	0	844	0	-450	
22	1476.45	244,082	970	0	1,904	0	886	0	-48	
23	1477.97	246,986	2,904	0	3,681	0	786	0	9	
24	1479.41	249,754	2,768	0	3,719	0	705	0	-246	
25	1480.53	251,919	2,165	0	2,977	0	827	0	15	
26	1480.49	251,842	-77	0	785	0	831	0	-31	
27	1480.10	251,087	-755	0	0	0	699	0	-56	
28	1479.66	250,237	-850	0	0	0	830	0	-20	
29	1480.77	252,384	2,147	0	3,021	0	993	0	119	
30	1482.29	255,342	2,958	0	4,071	0	1,046	0	-67	
31	1483.73	258,160	2,818	0	3,811	0	879	0	-114	
Total			35,037	0	61,321	0	25,392	0	-892	

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

December 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Rec.	Semitropic Bank Recovery	Local	Article 56C	Other	
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		61,089							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved	1,920	1					
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G	W3	Warne Power Plant	14.07	(29,562 AF of flow through Gorman Creek Imp. Channel)	32,421							
29H		Pyramid Lake		USFS		1,920	1					
				Pyramid Recreation (T300)	1							
29J		Pyramid Dam		United WA (T300)	1,920							
			17.10	California State Park Piru Fish (T300)	0							
29J	W4	Castaic Power Plant	25.82	(11,948 AF pumpback) 2/	70,516							
		Elderberry Forebay										
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		California State Park		23,696	7				3/ 1,100	
		Castaic Dam	31.47	Castaic Lake Recreation (T301)	7							
		Castaic Lake Outlet	31.6	MWDSC 78" & 132" (T302)	23,696							
				Castaic Lake WA 18", 24" & 54" (T303)	260							
				Castaic Lake WA Rio Vista T.P. (T304)	1,429							
				MWD-Ventura Co. WPD (T302)	0							
				Releases to Lagoon	0							
				Reach 30 Subtotal:	25,392							
W6	Castaic Lagoon			California State Park Recreation to Lagoon (T353)	0	23,729	7	556	0	0	1,100	
		Castaic Lagoon Outlet	31.9		186							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR

3/ Conveyance of non-project water Article 55 from Kern County WA to Castaic Lake WA.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

December 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Project			Del. To Mojave W.A.	Natural To Mojave River			
Nov 30	3351.40	71,501												
1	3351.37	71,473	-28	621	0	1	3	0	654	0	0	7	3	
2	3351.63	71,720	247	717	0	0	4	0	529	0	0	63	2	
3	3351.71	71,796	76	582	0	0	3	0	476	0	0	-27	0	
4	3351.48	71,577	-219	570	0	0	4	0	810	0	1	26	0	
5	3351.40	71,501	-76	582	0	1	4	0	572	0	0	-83	0	
6	3351.37	71,473	-28	574	0	0	4	0	592	0	0	-6	0	
7	3351.48	71,577	104	641	0	13	8	0	812	0	0	270	0	
8	3351.63	71,720	143	776	0	7	3	0	498	0	1	-138	0	
9	3351.73	71,815	95	623	0	2	4	0	577	0	0	51	0	
10	3351.63	71,720	-95	349	0	2	4	0	415	0	0	-27	0	
11	3351.63	71,720	0	394	0	3	4	0	432	0	1	40	0	
12	3352.10	72,169	449	284	0	250	4	0	426	0	54	399	0	
13	3352.24	72,302	133	272	0	174	2	1	405	0	109	204	0	
14	3352.21	72,274	-28	482	0	25	4	0	420	0	54	-57	0	
15	3351.09	71,207	-1,067	221	0	12	4	0	307	0	0	-989	0	
16	3351.01	71,123	-84	10	0	8	4	0	289	0	1	192	0	
17	3351.74	71,825	702	140	0	7	5	0	233	0	0	793	0	
18	3351.51	71,606	-219	124	0	6	3	0	321	0	0	-25	0	
19	3351.18	71,292	-314	13	0	6	8	0	379	0	1	55	0	
20	3351.09	71,207	-85	182	0	6	4	0	359	0	0	90	0	
21	3351.01	71,131	-76	329	0	6	4	0	241	0	0	-166	0	
22	3351.29	71,397	266	426	0	5	3	1	320	0	1	160	0	
23	3351.29	71,397	0	437	0	6	4	0	317	0	0	-122	0	
24	3351.01	71,131	-266	16	0	6	4	0	295	0	0	11	0	
25	3350.78	70,913	-218	14	0	6	3	0	310	0	1	76	0	
26	3350.36	70,516	-397	14	0	5	3	0	345	0	0	-68	0	
27	3350.28	70,440	-76	371	0	5	4	0	364	0	0	-84	0	
28	3350.42	70,572	132	359	0	5	3	0	288	0	1	60	0	
29	3350.56	70,705	133	452	0	5	3	0	287	0	0	-34	0	
30	3350.25	70,412	-293	16	0	5	3	0	272	0	0	-39	0	
31	3350.00	70,176	-236	17	0	5	3	0	269	0	0	14	0	
Total				-1,325	10,608	0	582	119	2	12,814	0	225	645	5

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

December 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Nov 30	1557.34	64,173				
1	1557.42	64,313	140		5	
2	1557.47	64,401	88		5	
3	1557.47	64,401	0		55	
4	1557.50	64,454	53		56	
5	1557.53	64,507	53		54	
6	1557.64	64,701	194		55	
7	1557.88	65,125	424		55	
8	1557.97	65,284	159		54	
9	1557.97	65,284	0		54	
10	1558.02	65,372	88		54	
11	1557.97	65,284	-88		54	
12	1557.99	65,319	35		55	
13	1558.05	65,426	107		54	
14	1558.05	65,426	0		50	
15	1557.90	65,153	-273		53	
16	1557.90	65,148	-5		53	
17	1557.77	64,930	-218		50	
18	1557.77	64,930	0		49	
19	1557.72	64,842	-88		51	
20	1557.64	64,701	-141		50	
21	1557.45	64,351	-350		50	
22	1557.66	64,736	385		49	
23	1557.58	64,595	-141		50	
24	1557.58	64,595	0		49	
25	1557.42	64,313	-282		50	
26	1557.39	64,260	-53		50	
27	1557.45	64,366	106		50	
28	1557.39	64,260	-106		51	
29	1557.31	64,120	-140		55	
30	1557.34	64,173	53		55	
31	1557.20	63,927	-246		55	
Total			-246	2,039	1,530	-755

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

December 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries								
	Beginning and Ending		No.			Table A	Rec.	Semitropic Bank Recovery	Local	Article 56C	Other			
	No.	Structure	Mile											
17E	40	Edmonston Pumping Plant	293.45		76,124									
	41		298.65	KCWA Tej.-Cas	Stub									
17F		Check No. 41	303.41											
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0									
		Check No. 42	304.99											
	43	Alamo Powerplant	305.73	(Includes 13,160 AF generation, 0 AF plant bypass, and 801 AF Tehachapi Bypass)	13,961									
			306.71	AVEK 305th Street West (T287)	0									
19	44		308.05	AVEK 294th Street West (T267)	0									
		Check No. 43	309.70											
			311.84	LADWP Connection	0									
	45		313.50	AVEK 245th Street West (T269)	0									
		Check No. 44	314.81											
			314.93	AVEK 235th Street West (T270)	0									
	46		315.57	AVEK 225th Street West (T271)	0									
		Check No. 45	319.74											
			323.19	Antelope Valley-East Kern WA Fairmont (T272)	297		297							
20A				Mojave Water Agency Fairmont (T272)	34									
47	Check No. 47	326.77		Reach 19 Total:	331		331	0	0	0	0			
		326.91	Antelope Valley-East Kern WA Willow Springs (T273)	19										
			Antelope Valley-East Kern WA 120th Street West	Removed										
48	Check No. 48	330.82												
	Check No. 49	335.93												
20B	50		336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	2,072		1,152	19	3	1/ 920	451			
				Antelope Valley-East Kern WA Rancho Vista (T275)	3									
		Check No. 50	341.51	AVEK WA-Temp (T387)	0									
	51		342.06	AVEK WA-Temp (T386)	0									
		Check No. 51	342.07											
	52		342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0									
		Check No. 52		343.74										
21	53		346.98	Palmdale WD (T276) Temp.	598		147	2						
				Antelope Valley-East Kern WA Acton Treatment Plant (T277)	2									
		Check No. 53	348.17											
	54		349.52	Palmdale WD (T394)	0									
		Check No. 54	350.25											
		Check No. 55	352.70											
	56		354.76											
		Check No. 56		AVEK WA- Delivered through Littlerock Creek ID (T278)	0									
			354.97	Palmdale WD (T276)	0									
22A				Palmdale WD (T391)	0									
57	Check No. 57	356.93												
		357.60	AVEK 95th Street East (T279)	1										
		357.72	AVEK 96th Street East (T280)	0										
		359.76	AVEK East Side Treatment Plant (T281)	188										

1/ Long-term Exchange of Table A from Littlerock Creek ID to Antelope Valley-East Kern WA.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

December 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Rec.	Semitropic Bank Recovery	Local	Article 56C	Other	
	No.	Structure	Mile									
22B	58	Pearblossom Pumping Plant	360.61		10,925	424	6	2	5	107	2/ 7	
	59	Check No. 59	366.09									
	60		366.50	AVEK Big Rock Siphon (T368)	0							
	61	Check No. 60	373.94									
	61	Check No. 61	379.00									
	62	Check No. 62	384.26									
	63	Check No. 63	389.20	Mojave Water Agency White Road 24" & 42" (T282)	424							
	64	Check No. 64	395.10									
	65	Check No. 65	400.32									
	66		401.10	Mojave Water Agency Morongo 24" & 42" (T284)	6							
23		Check No. 66	403.41									
		Mojave Siphon	405.58	Las Flores Ranch Exchange	5							
24		Mojave Siphon Powerplant	405.65		10,508	5,072	2	5	107	2/ 7		
		Silverwood Lake	407.65	MWA CS DAM (T288)	0							
				California State Park Silverwood (T288)	2							
				Crestline-Lake Arrowhead WA State Project Water (T289)	114							
				Non-Project Water (T289)	5							
25		San Bernardino Intake Tunnel	407.70		12,814							
		Devil Canyon Powerplant			12,814							
26A	26A	Devil Canyon Afterbay Control Structures	412.88	MWD-Rialto (T292)	0	3/ 1,679	1,679	4/ 1,100	4/ 1,100	4/ 1,100	4/ 1,100	
				MWD-Rialto (T293)	5,072							
				Desert Water Agency Transfer (T293)	0							
				Coachella Valley WD Transfer (T293)	0							
				MWD EBX-1 (T290)	0							
				MWD EBX-1 (T291)	0							
				East Branch Extension	2,779							
				Inland Feeded (T294)	0							
28G				425.46								
28H	28H	Santa Ana Valley Pipeline	433.06	MWD-SC Box Springs (T295)	3,090	3,090	69	156	20	0	0	
				MWD-SC Perris Bypass Pipeline (T296)	69							
28J	28J	Lake Perris	440.05	MWD-SC (T297)	156	1,354	20	0	0	0	0	
				MWD-SC 54" & 78" (T299)	1,354							
			443.44	Calif. State Park Lake Perris Parks & Rec. (T298)	20							
				MWD Total:	33,437							

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

2/ Transfer of Table A from San Bernardino Valley WD to Crestline-Lake Arrowhead WA.

3/ Includes 0 AF to San Gabriel Valley MWD, 1,161 AF to San Bernardino Valley MWD, and 518 AF to San Gorgonio Pass WA.

4/ Includes 100 AF of Table A exchange from San Gorgonio Pass WA to San Bernardino Valley MWD and a 1,000 AF long-term exchange from Crestline-Lake Arrowhead WA to San Bernardino Valley MWD.

Table 32. Water Quality At Selected SWP Locations

December 2009

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO ₃	47	99	71	75	81	77	72	70	65
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.002	0.001	0.002	0.001	0.002	0.005	0.003	0.003
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
Bromide	mg/l	<0.01	0.04	0.24	0.26	0.24	0.23	0.25	0.22	0.23
Calcium	mg/l	9	16	18	20	22	21	28	25	21
Chloride	mg/l as C	1	23	79	85	79	76	57	66	69
Chromium	mg/l as C	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0	0	0
Copper	mg/l	<0.001	0	0	0	0	0	0	0	0
Fluoride	mg/l	NR	NR	NR	NR	NR	NR	NR	NR	NR
Hardness	mg/l	40.000	96.000	95.000	104.000	111.000	105.000	96.000	100.000	90.000
Iron	mg/l	<0.005	0	0	0	0	0	<0.005	<0.005	<0.005
Lead	mg/l as CaCO ₃	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4.000	14.000	13.000	13.000	14.000	13.000	6.000	9.000	9.000
Manganese	mg/l	<0.005	0.035	<0.005	0.013	0.005	<0.005	0.018	<0.005	<0.005
Nitrate + Nitrite	mg/l	<0.01	0	1	1	1	1	1	1	1
Organic Carbon, Dissolved	mg/l	NR	4.700	2.700	2.500	2.600	2.400	1.575	1.800	2.200
Organic Carbon, Total	mg/l as N	NR	5.10	2.80	2.70	2.60	2.50	1.50	1.80	2.20
Phosphate-Ortho	mg/l as P	<0.01	0.09	0.05	0.05	0.06	0.06	NR	0.03	0.05
Phosphorus-Total	mg/l	0.01	0.14	0.07	0.06	0.08	0.06	0.03	0.04	0.07
Selenium	mg/l	<0.001	<0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Sodium	mg/l	4	25	53	59	59	56	53	56	52
Specific Conductance	µS/cm	99	305	463	498	513	472	481	478	443
Sulfate	mg/l	2	22	29	38	46	39	52	49	35
Total Dissolved Solids	mg/l	63	183	255	289	290	264	271	264	245
Turbidity	NTU	2	22	5	5	6	1	2	1	4
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

December 2009

Date	Antioch Tides (feet above mean sea level)		Flow In CFS				Electrical Conductivity in millisiemens/cm								Cl in mg/l	
			Net Delta Outflow Index		Rio Vista	Antioch	Chipps Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal		
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md	
38	1	6.50	4.14	3,488	3,488	5,069	5.60	12.96	2.84	1.43	1.81	1.02	0.45	0.75	0.61	119
	2	6.74	4.40	3,614	3,551	3,689	6.54	14.15	3.65	1.57	2.09	1.10	0.43	0.73	0.58	118
	3	6.74	4.39	3,991	3,698	3,482	6.65	14.67	3.84	1.73	2.10	1.19	0.45	0.75	0.54	118
	4	6.44	4.16	3,995	3,772	3,497	5.98	13.67	3.29	1.81	1.83	1.23	0.44	0.76	0.57	121
	5	6.47	4.33	4,150	3,848	3,626	6.07	13.88	3.57	1.98	1.86	1.30	0.43	0.76	0.55	117
	6	6.27	4.37	4,020	3,876	5,064	6.31	14.49	3.79	2.18	1.88	1.37	0.47	0.76	0.54	118
	7	5.86	4.31	3,735	3,856	4,422	5.81	13.17	2.87	2.33	1.71	1.44	0.48	0.79	0.55	120
	8	5.45	3.87	6,510	4,188	4,432	4.84	11.88	2.18	2.44	1.39	1.49	0.53	0.86	0.60	122
	9	5.24	3.42	7,175	4,520	4,819	3.91	10.43	1.75	2.50	1.18	1.52	0.51	0.86	0.66	115
	10	5.43	3.47	6,685	4,736	4,560	3.84	10.17	1.63	2.53	1.15	1.54	0.50	0.84	0.63	115
	11	5.91	3.83	6,096	4,860	4,356	4.53	11.35	2.05	2.56	1.31	1.56	0.45	0.83	0.62	114
	12	6.58	4.38	6,876	5,028	4,532	6.09	13.55	3.28	2.74	1.77	1.61	0.45	0.83	0.59	95
	13	6.89	4.73	7,729	5,236	5,285	6.62	14.03	3.30	2.88	2.05	1.68	0.45	0.59	0.57	93
	14	6.58	4.40	12,678	5,767	7,844	5.61	12.47	2.31	2.88	1.66	1.70	0.47	0.53	0.62	113
	15	6.47	4.32	13,004	6,250	8,468	5.30	12.57	2.24	2.84	1.59	1.68	0.50	0.56	0.64	105
	16	6.45	4.34	12,144	6,618	8,463	5.11	11.32	1.79	2.71	1.65	1.65	0.50	0.59	0.60	104
	17	6.30	4.22	10,890	6,870	11,512	4.81	10.74	1.65	2.55	1.55	1.61	0.55	0.64	0.61	112
	18	6.03	4.11	8,466	6,958	10,588	4.58	10.12	1.38	2.41	1.59	1.60	0.55	0.70	0.59	101
	19	5.84	4.05	5,453	6,879	10,201	4.33	9.32	1.17	2.24	1.55	1.57	0.55	0.73	0.62	125
	20	5.82	4.15	6,667	6,868	11,042	4.23	9.53	1.12	2.05	1.65	1.56	0.56	0.76	0.60	108
	21	5.75	4.26	6,314	6,842	10,308	4.47	10.27	1.18	1.93	1.75	1.56	0.57	0.78	0.59	106
	22	5.28	4.07	5,881	6,798	9,399	4.09	9.56	0.68	1.82	1.52	1.57	0.58	0.84	0.61	107
	23	5.01	3.58	6,478	6,784	9,717	3.17	7.87	0.53	1.74	1.33	1.58	0.61	0.85	0.67	104
	24	5.19	3.49	5,554	6,733	9,302	3.13	7.78	0.67	1.67	1.34	1.59	0.55	0.86	0.69	104
	25	5.57	3.68	5,988	6,703	9,267	3.55	8.60	0.85	1.58	1.40	1.60	0.58	0.86	0.70	106
	26	6.05	4.02	5,620	6,662	8,993	4.37	9.86	1.06	1.42	1.63	1.59	0.52	0.84	0.72	123
	27	6.27	4.10	4,593	6,585	8,140	4.75	10.89	1.31	1.28	1.74	1.57	0.56	0.84	0.74	99
	28	6.42	4.17	4,613	6,515	7,864	5.13	11.56	1.79	1.24	1.83	1.58	0.59	0.86	0.73	104
	29	6.65	4.34	5,198	6,469	7,666	5.63	12.62	2.24	1.24	2.02	1.61	0.56	0.88	0.69	97
	30	6.80	4.42	6,187	6,460	7,733	5.87	12.80	2.65	1.31	2.12	1.64	0.60	0.82	0.75	134
	31	6.56	4.13	6,901	6,474	7,665	5.33	11.90	2.36	1.36	1.84	1.66	0.59	0.84	0.73	86

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

December 2009

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	June 17, 2009	Metolachlor	0.10
California Aqueduct At Banks Pumping Plant	June 16, 2009	Metolachlor Simazine	0.20 0.02
O'Niell Forebay Outlet Check 13	June 17, 2009	Simazine	0.02
Delta Mendota Canal At McCabe Road	June 17, 2009	Metolachlor Simazine	0.20 0.02
California Aqueduct Near Kettleman City (Check 21)	June 16, 2009	Simazine	0.02
California Aqueduct At Near Highway 119 (Check 29)	June 17, 2009	Simazine	0.02
California Aqueduct at Tehachapi Afterbay (Check 41)	March 17, 2009	Diuron	1.65
California Aqueduct At Devil Canyon Headworks	June 17, 2009	Simazine	0.06

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

December 2009

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	5,068,899	11	17,180	25,101	2,201,936	2,201,936	1,128	832
2	5,349,245	0	16,914	19,534	1,976,416	1,976,416	1,101	830
3	5,372,257	0	15,656	16,167	1,113,360	1,113,360	1,130	832
4	5,340,797	0	14,225	14,712	1,114,744	1,114,744	1,150	844
5	1,270,368	0	13,071	16,604	1,115,968	1,115,968	1,148	840
6	1,236,950	0	12,933	17,842	1,117,392	1,117,392	1,143	854
7	4,769,963	0	10,736	17,357	1,160,360	1,160,360	283	843
8	4,886,255	0	11,223	19,845	1,128,568	1,128,568	614	848
9	3,158,012	0	10,408	18,193	1,127,240	1,127,240	1,490	858
10	4,803,491	11	11,675	16,364	1,188,272	1,188,272	1,608	872
11	5,693,105	132	11,172	18,637	1,337,912	1,337,912	2,046	863
12	925,782	1,144	5,963	14,871	1,365,472	1,365,472	2,593	870
13	1,808,048	198	5,383	14,837	1,657,840	1,657,840	2,514	855
14	3,980,801	88	5,874	16,787	2,206,272	2,206,272	2,615	856
15	3,784,462	33	5,196	14,824	2,510,936	2,510,936	2,663	855
16	2,273,656	165	5,326	15,430	2,684,608	2,684,608	2,683	857
17	1,605,956	0	6,675	19,313	2,775,440	2,775,440	2,622	869
18	1,490,544	0	5,325	16,330	2,560,472	2,560,472	2,685	869
19	1,497,771	11	5,863	13,248	2,561,312	2,561,312	2,669	872
20	1,321,287	88	8,567	16,077	2,531,192	2,531,192	2,615	869
21	2,535,313	33	6,606	12,545	2,242,584	2,242,584	2,623	870
22	2,402,246	0	8,742	17,023	1,968,112	1,968,112	2,719	906
23	2,744,291	0	7,817	15,135	1,692,968	1,692,968	2,682	978
24	4,455,264	0	8,621	16,427	2,720,040	2,720,040	2,581	951
25	1,971,013	0	8,354	16,965	2,567,472	2,567,472	2,513	1,017
26	1,931,919	0	7,441	12,635	2,287,408	2,287,408	2,638	1,019
27	2,371,545	473	8,493	16,308	2,279,768	2,279,768	2,607	906
28	4,825,777	0	8,520	14,882	2,257,800	2,257,800	2,694	889
29	2,204,851	1,463	9,062	16,677	1,954,528	1,954,528	2,736	870
30	1,474,000	341	5,654	12,967	2,002,776	2,002,776	2,638	876
31	1,057,826	0	6,448	17,016	1,693,072	1,693,072	2,663	976
Total	93,611,694	4,191	285,123	510,653	59,102,240	59,102,240	65,594	27,346

Table 36. San Luis Field Division Energy Data

(in kWh)

December 2009

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	221,523	149,523	0	0	1,868,567	1,516,567
2	313,088	241,088	0	0	2,684,121	1,436,121
3	232,440	232,440	0	0	1,968,747	1,160,747
4	319,162	271,162	0	0	1,147,421	615,421
5	392,905	344,905	0	0	1,687,873	367,873
6	324,910	276,910	0	0	2,050,521	466,521
7	308,347	260,347	0	0	1,131,680	407,680
8	307,854	259,854	0	0	1,212,200	684,200
9	270,006	222,006	0	0	1,489,697	289,697
10	274,960	226,960	0	0	1,445,455	661,455
11	285,186	237,186	0	0	1,531,442	355,442
12	221,555	173,555	0	0	1,350,580	272,580
13	237,372	189,372	0	0	2,426,787	74,787
14	208,730	160,730	0	0	1,339,008	947,008
15	210,052	162,052	0	0	3,025,044	2,535,044
16	126,578	78,578	0	0	4,006,541	3,070,541
17	123,209	75,209	0	0	3,915,065	2,605,065
18	177,057	129,057	0	0	3,779,413	2,531,413
19	174,119	126,119	0	0	3,486,604	2,286,604
20	176,259	128,259	0	0	3,484,712	1,036,712
21	173,892	125,892	0	0	3,487,231	2,287,231
22	281,255	233,255	0	0	3,489,640	2,193,640
23	286,032	238,032	0	0	3,488,287	2,192,287
24	227,952	179,952	0	0	2,559,227	1,623,227
25	217,440	169,440	0	0	2,808,190	1,896,190
26	189,935	141,935	0	0	2,904,946	1,992,946
27	320,126	272,126	0	0	2,920,456	616,456
28	189,856	141,856	0	0	2,318,954	1,550,954
29	201,007	153,007	0	0	2,189,451	1,421,451
30	154,615	106,615	0	0	1,790,789	1,406,789
31	149,107	101,107	0	0	2,027,828	1,643,828
Total	7,296,529	5,808,529	0	0	75,016,477	42,146,477

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Plant Energy Load Data

(in kWh)

December 2009

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	1,010	2,307	15,199	16,254	17,666	577,220	718,653	1,594,747	6,060,096
2	1,010	1,933	16,399	14,078	15,436	577,954	683,450	1,536,865	5,742,333
3	1,076	3,029	19,014	16,150	16,336	645,269	759,895	1,720,246	6,474,330
4	1,111	2,120	10,618	9,626	10,430	699,445	786,905	1,750,771	6,565,347
5	1,059	1,426	1,940	1,830	1,433	693,309	757,690	1,715,703	6,499,035
6	8,048	14,190	1,925	1,772	1,394	653,618	788,192	1,777,985	6,660,873
7	8,000	21,551	20,815	19,741	19,924	638,849	716,085	1,610,180	5,808,078
8	1,713	3,356	21,140	19,916	22,359	451,293	453,966	1,046,595	3,765,474
9	4,418	10,561	22,854	21,377	22,967	492,001	583,737	1,318,966	5,190,129
10	5,040	11,946	29,227	26,694	28,515	696,585	724,562	1,597,937	5,899,554
11	3,749	9,569	27,594	26,168	28,748	674,490	687,162	1,576,465	5,908,572
12	4,119	9,756	33,637	31,520	32,586	523,060	647,861	1,487,013	5,603,364
13	5,659	13,260	42,713	40,495	42,620	640,976	730,255	1,613,106	5,933,223
14	1,858	3,587	11,011	9,032	11,113	597,196	680,172	1,541,177	5,795,604
15	2,615	8,510	19,905	19,001	19,510	444,919	518,301	1,167,298	4,230,468
16	5,879	12,919	38,053	35,503	38,045	276,358	281,352	632,258	2,329,992
17	3,559	8,262	27,496	25,526	28,094	368,856	541,516	1,232,770	4,623,102
18	3,754	9,104	27,061	25,163	27,002	400,719	507,397	1,145,782	4,277,448
19	2,763	6,218	22,642	20,865	21,897	511,262	723,325	1,624,062	6,160,860
20	6,373	14,726	35,547	32,664	35,687	521,123	655,218	1,489,026	5,567,886
21	3,428	7,652	23,530	21,482	23,881	551,521	701,574	1,576,872	5,814,990
22	2,619	6,049	26,795	25,050	27,372	565,821	711,444	1,586,662	6,040,521
23	4,333	10,785	29,566	27,225	28,425	576,295	728,323	1,658,096	6,233,841
24	3,052	6,623	18,928	17,654	19,915	491,705	538,936	1,205,259	4,517,073
25	2,842	6,252	22,231	20,614	21,921	490,937	576,446	1,295,954	4,879,116
26	3,409	7,857	30,591	28,906	30,225	445,849	626,192	1,414,435	5,117,040
27	4,529	10,935	31,591	29,142	30,881	618,750	765,831	1,736,086	6,363,522
28	2,953	6,898	16,942	16,262	17,823	574,064	728,894	1,622,390	6,110,316
29	3,525	7,950	26,671	24,556	26,856	565,641	724,654	1,633,357	6,102,729
30	4,262	11,148	35,147	32,993	34,740	414,817	561,048	1,264,318	4,632,363
31	3,839	8,419	21,734	20,208	21,949	399,204	539,868	1,210,528	4,572,099
Total	111,604	258,898	728,516	677,467	725,750	16,779,106	20,148,904	45,382,909	169,479,378

Table 38. Southern Field Division Energy Data

(in kWh)

December 2009

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	498,892	661,878	2,016,000	80,403	456,146	781,120	45,460	61,198	50,266	3,228
2	461,972	661,274	2,016,000	86,961	475,120	617,818	53,988	63,584	50,263	2,899
3	558,978	659,181	2,016,000	88,526	406,858	546,630	43,613	61,814	47,155	381
4	561,462	663,300	2,016,000	87,727	405,657	988,845	43,038	48,993	33,101	395
5	559,776	660,550	2,016,000	88,092	408,893	675,207	43,614	49,603	33,040	386
6	560,479	660,612	2,016,000	86,829	408,171	691,900	43,191	47,032	33,094	387
7	487,139	660,478	2,016,000	76,149	453,217	985,991	43,551	44,966	33,071	392
8	352,473	661,052	2,016,000	7,428	603,904	579,465	54,194	59,597	45,811	3,228
9	466,072	662,860	2,016,000	42,445	421,193	677,647	45,061	64,990	50,199	2,909
10	525,674	662,769	2,016,000	67,024	227,331	468,916	19,721	59,718	43,135	429
11	451,629	491,962	2,016,000	80,150	277,107	491,975	25,482	51,760	32,307	427
12	474,781	620,673	2,016,000	47,637	373,886	472,132	16,024	53,446	31,919	427
13	521,481	663,367	2,016,000	61,261	328,473	454,840	16,290	53,134	31,843	426
14	498,891	663,001	2,016,000	69,922	311,804	471,467	30,972	53,138	31,870	306
15	446,174	662,426	2,016,000	30,126	142,407	343,552	13,835	53,128	31,914	2,814
16	280,170	658,179	2,016,000	0	16,448	325,612	0	53,170	31,922	2,835
17	478,358	661,146	2,016,000	20,461	115,715	272,673	8,255	51,735	31,938	425
18	510,122	661,487	2,016,000	0	16,045	378,489	7,795	51,671	32,931	419
19	666,154	663,314	2,016,000	35,235	106,582	456,414	0	52,575	33,203	413
20	663,426	662,138	2,016,000	30,489	125,082	428,511	11,030	52,553	33,182	418
21	588,131	564,928	2,016,000	15,693	202,177	278,772	22,922	36,673	33,190	427
22	578,194	659,000	2,016,000	60,116	306,846	377,962	30,292	36,614	44,900	3,179
23	601,198	631,299	2,016,000	63,948	305,803	371,791	30,267	31,539	38,121	2,836
24	537,051	660,822	2,016,000	11,711	38,656	338,281	0	7,385	4,548	425
25	580,374	664,331	2,016,000	15,470	46,463	357,588	0	1,526	540	417
26	565,967	661,727	2,016,000	30,670	117,585	411,302	0	18,255	17,291	427
27	538,638	662,584	2,016,000	62,931	276,527	434,326	26,047	18,905	20,711	423
28	535,343	660,903	2,016,000	51,519	235,132	333,437	20,458	27,441	31,546	426
29	558,390	661,298	2,016,000	34,781	204,701	329,222	30,454	27,419	33,261	428
30	534,111	662,823	2,016,000	0	15,807	318,892	0	27,515	33,206	425
31	542,439	661,852	2,016,000	0	16,266	315,020	0	4,688	536	427
Total	16,183,939	20,173,214	62,496,000	1,433,704	7,846,002	14,975,797	725,554	1,325,765	1,000,014	33,384

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.